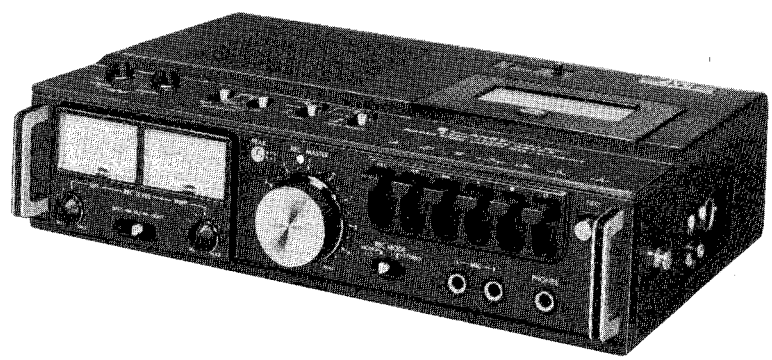
JVC

SERVICE MANUAL

MODEL

KD-1635Mark III A/B/E/U
KD-1636Mark II C/J

PORTABLE STEREO CASSETTE DECK



No. 4168
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Specifications

Type : Portable stereo cassette deck
Track system : 4-track, 2-channel
Cassettes : C-30, C-60, C-90
Tape speed : 4.8cm/sec
Frequency response
$\frac{SA}{CrO_2}$ *1 : 25~18,000Hz
(30~16,000Hz ±3dB)
$\frac{SF}{NORM}$ *2 : 25~17,000Hz
(30~15,000Hz ±3dB)
*1....TDK-SA or Equivalent
*2....MAXELL-UD or Equivalent
S/N : 57dB (from peak level, weighted)
The S/N is improved by 5dB at 1kHz and by 10dB above 5kHz with ANRS on.
Effect of Super ANRS (Normal tape)
Improvement of Signal-to-Noise ratio: the same as with ANRS
Improvement of high frequency linearity : 0VU recording; 6dB at 10kHz
+5VU recording; 12dB at 10kHz
Improvement of distortion : 0VU recording; 3% or less at 10kHz
+5VU recording; 3% or less at 10kHz
Wow and flutter : 0.2% (DIN 45500)
0.08% (WRMS)
Crosstalk : 65dB
Harmonic distortion (1kHz, 0VU Normal Tape *2) : Total 1.2%
Third 0.5%
Bias : AC bias (95kHz)
Erasure : AC erasure
Heads : 2 heads
SA head for recording/playback and 2 Gap ferrite head for erasure
Motor : Coreless Electronic Govermer DC Motor
Recording time : 2 x 30 minutes with the C-60 cassette
Fast forward time : 90 sec (with the C-60 cassette) per track
Rewind time : 90 sec (with the C-60 cassette) per track

Semiconductors : IC; 5
Transistors; 41
Diodes; 34
SCR; 1
Input jacks : Mic jack; 2
Max. sensitivity; 0.14mV (-75dBs)
Matching impedance; 200Ω~10kΩ
Input jack; 2
Min. Input level; 80mV (-20dBs)
Input impedance; 100kΩ
Output jacks : Output jack; 2
Output level; 500mV (fixed)
Output impedance; 2.5kΩ
Matching load impedance; 50kΩ or more
Headphone jack; 1
Output level; 0~0.75mW
Matching impedance; 8Ω
Recording connector (REC/PB) : Min. input level; 0.12mV/kΩ
Input impedance; 9kΩ
Output level; 500mV
Output impedance; 2.5kΩ
Matching load impedance; 50kΩ or more
Speaker : Output; 1.2W (distortion, 10%)
Impedance; 4Ω
Diameter; 10cm
Power supply : DC 9V ("D" size cell x 6)
DC 12V (EXT.)
AC power;
120V 60Hz (KD-1636-2C/J)
240V 50/60Hz (KD-1635-3A)
240/120V 50/60Hz (KD-1635-3B)
220/110V 50/60Hz (KD-1635-3E)
220~230/200/110~120/100V 50/60Hz (KD-1635-3U)
Power consumption : 9W
Battery life : Approx. 12 hours of continuous recording (on super type batteries)
Approx. 5 hours of continuous recording (on regular type batteries)
Dimensions : 14-5/8(width) x 4(height) x 9-11/16 (depth) in.
Weight : 11.7 lbs (including 6 batteries)

Design and specifications are subject to change without notice.

Features

* High Performance
* Power-saving Design
* Coreless Motor
* Built-in ANRS (U.S. Pat. 375 7254 and 376 9612) and Super ANRS
* Sen-alloy Head
* Full Auto Stop
* Tape Select Switches
* High-linearity Amplifier
* High-precision Mechanisms
* Input Select Switch and Microphone Attenuator
* Master Recording Volume Control
* External DC Power Connection Terminal
* Built-in Large Speaker
* REC MODE Select Switch
* Front Panel Protectors
* Peak LED Indicator

Controls and Connections

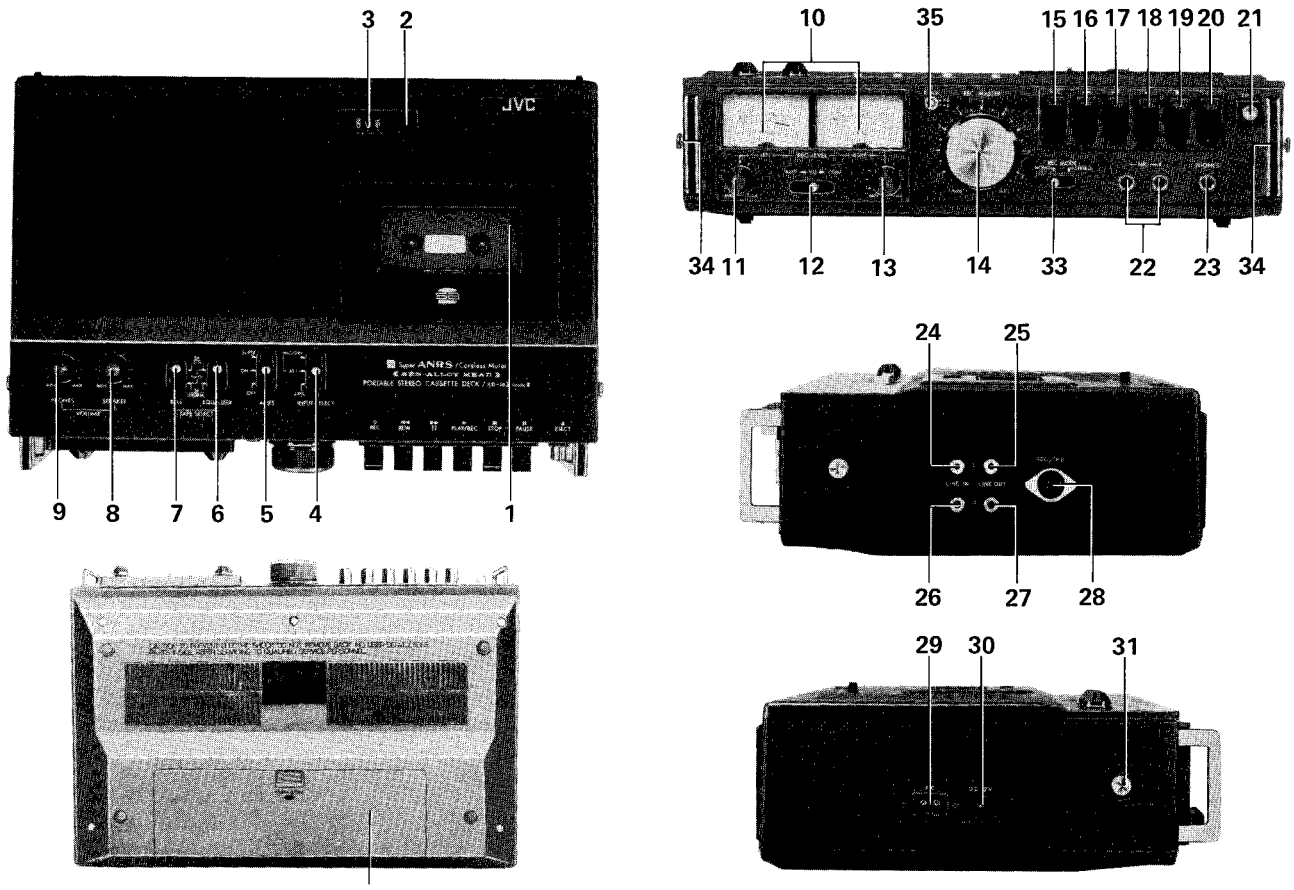


Fig. 1

1 Cassette door
2 Reset button
3 Tape counter
4 Input selector switch [INPUT SELECT]
5 ANRS switch [ANRS]
6 Equalizer switch [EQUALIZER]
7 Bias switch [BIAS]
8 Speaker volume control [SP. VOL]
9 PHONES volume control [H. P. VOL]
10 Level meters
11 Left recording level control [REC LEVEL]
12 Check switch [batt/VU light]
13 Right recording level control [REC LEVEL]
14 Master recording volume control [REC MASTER]
15 Record button [REC]
16 Rewind button [REW]
17 Fast forward button [FF]
18 PLAY/REC button [PLAY/REC]
19 STOP button [STOP]
20 PAUSE button [PAUSE]
21 EJECT button [EJECT]
22 Microphone jacks [L-MIC-R]
23 Headphone jack [PHONES]
24 Left auxiliary input jack [LINE IN]
25 Left auxiliary output jack [LINE OUT]
26 Right auxiliary input jack [LINE IN]
27 Right auxiliary output jack [LINE OUT]
28 Record/playback DIN jack [REC/PB]
29 AC input terminal [AC]
30 DC input terminal [DC 12V]
31 Shoulder belt holder
32 Battery cover
33 REC MODE select switch
34 Front panel protectors
35 Peak LED indicator

Main Parts Removing & Replacement

This cassette deck which features a compact design and performance uses miniature-sized parts which are closely arranged. Use special care when servicing it.

Enclosure Assembly

Parts Name	Procedure	Ref. No.	Remarks
Bottom cover	1. Pull off to remove the battery cover from the bottom cover and remove six batteries. 2. Remove 6 screws fastening the bottom cover. 3. Pull out 2 wire tips for the battery.	Fig. 2 (1)	One Screw (3φ8mm) is in the battery case. Orange, black wires
Control knobs	Pull out the control knobs to front or upper side.		Speaker and Phones volume control knobs. REC level control knobs (left and right) REC volume control knob
Top panel	1. Press [EJECT] button, and the cassette door will swing open, then remove 1 screw. 2. Remove 3 screws fastening the top panel. 3. Remove 4 tapping screws fastening the top panel. 4. Pull out 2 wire tips to speaker, then can be removed the top panel.	Fig. 3 (2)	Black screw 2φ 4mm Black screws 3φ 6mm (front side of top panel) Black screws 3φ 3mm (front side of top panel)
Front panel	1. Remove 5 tapping screws. 2. Remove 2 screws (left side). 3. Pull out the front panel to front side.	Fig. 6, 9, 10 (5) Fig. 8 (5)	Upper(1 pc.), under(1 pc.) and right(3 pcs.) sides, 3φ 6mm

Electric Parts

Parts Name	Procedure	Ref. No.	Remarks
Main amp circuit board	1. Remove 4 screws fastening the main amp circuit board. 2. Remove 2 screws fixing the bracket (heat sink plate) of transistors, and then remove shield board.	Fig. 5 (6) Fig. 8 (7)	Violet screws
ANRS circuit board	Remove 4 screws fastening ANRS circuit board, and then remove shield board.	Fig. 5 (8)	Violet screws
Switch circuit board	1. Remove 2 screws fastening SW circuit board. 2. Pull out 4 blind felts of switch shaft. 3. Remove 2 screws fastening the switches. 4. Remove 1 nut and washers fastening variable resistors. 5. Pull out switch circuit board to back side.	Fig. 7 (9) Fig. 7 (10) Fig. 7 (11)	Speaker volume control VR
Power transformer	Remove 2 screws and washers (with 2 nuts) fastening power transformer.	Fig. 4 (12)	

Mechanical Parts

Parts Name	Procedure	Ref. No.	Remarks
Mecha ass'y	1. Remove ANRS circuit board. 2. Remove muting bracket. 3. Remove 3 screws fastening circuit board. (under side of mecha ass'y)	Fig. 11 (13) Fig. 11 (14)	
Motor ass'y	1. Disconnect 2 wires to motor circuit board. 2. Remove capstan belt. 3. Remove 2 screws fastening bracket of motor circuit board. 4. Remove 3 screws (as same washers and rubber bushings) fastening motor.	Fig. 11 (15) Fig. 12 (16)	Red and black wires Don't soil the belt.
Pinch roller arm ass'y	1. Remove E ring pinch roller arm ass'y. 2. Remove pinch roller arm spring. (for pressure adjustment)	Fig. 11 (17)	
Take-up reel (right side)	1. Remove E ring holding take-up reel. 2. Remove take-up reel from shaft.	Fig. 11 (18)	
Supply reel (left side)	1. Remove E ring holding supply reel. 2. Remove supply reel from shaft.	Fig. 11 (19)	
Flywheel	1. Remove capstan belt. 2. Remove 2 screws fixing flywheel holder. 3. Remove E ring holding take-up idler arm. 4. Pull out flywheel.	Fig. 12 (20) Fig. 12 (21)	Don't soil the belt.

[Note] Almost all the mechanical parts can be adjusted and replaced when only the ANRS circuit board is removed.

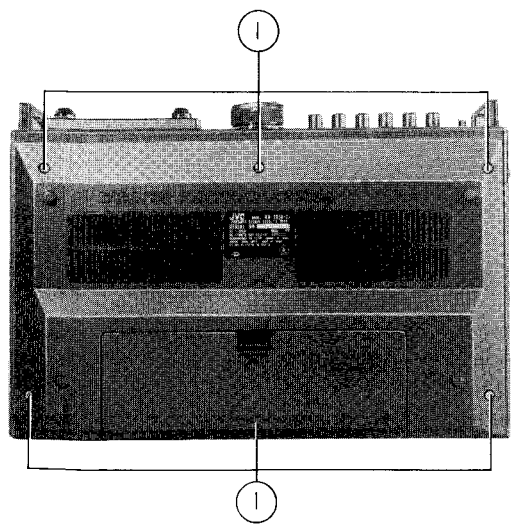


Fig. 2

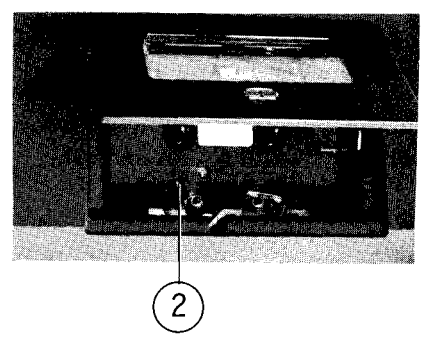


Fig. 3

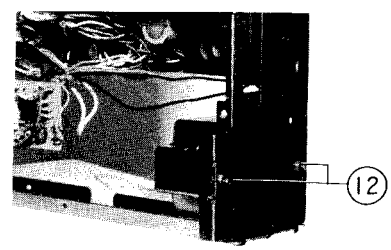


Fig. 4

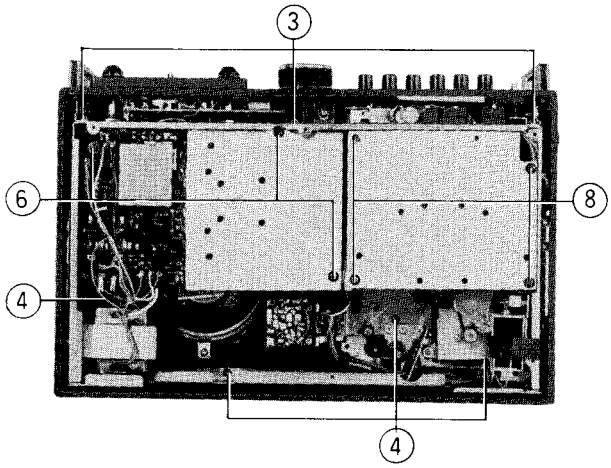


Fig. 5

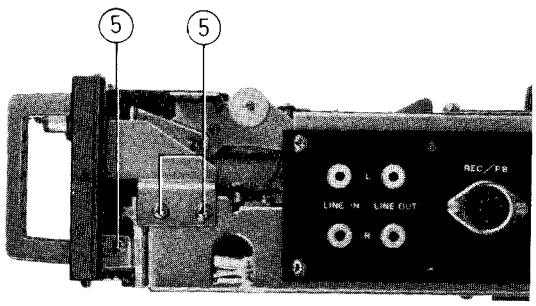


Fig. 6

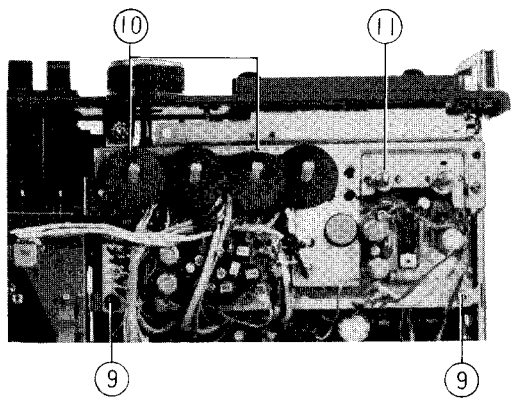


Fig. 7

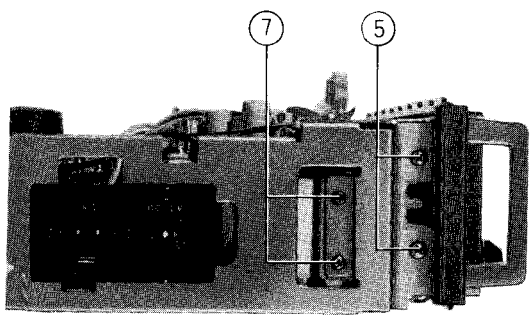


Fig. 8

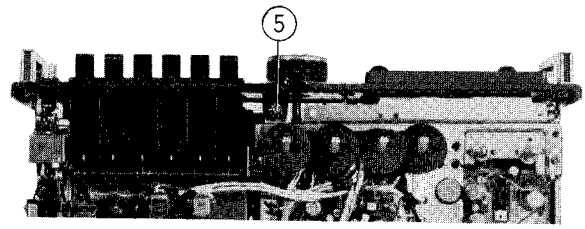


Fig. 9

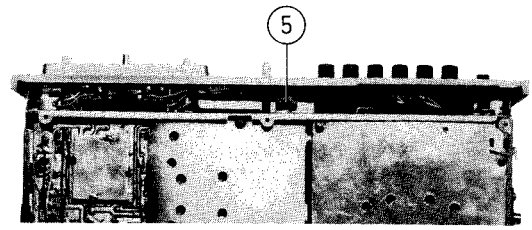


Fig. 10

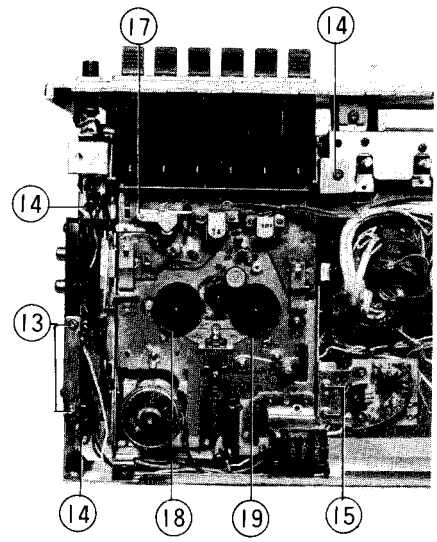


Fig. 11

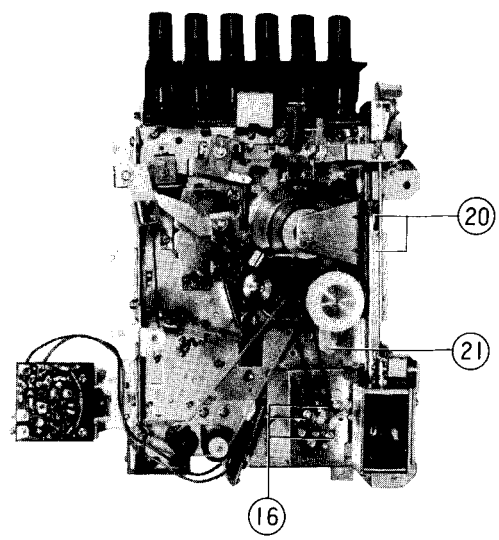


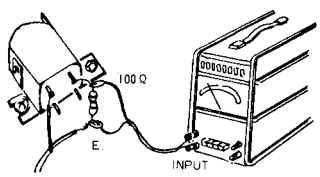
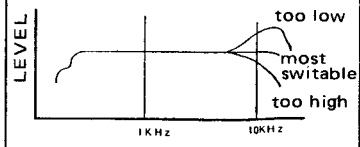
Fig. 12

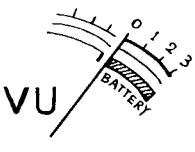
Main Adjustments

Electrical Adjustments

Equipment and measuring instruments used for adjustment.

1. Audio-frequency oscillator
2. Attenuator
3. Electronic Voltmeter
4. Test tapes (VTT-664 1kHz 16mM/mm)
5. Blank tapes (MAXELL UD, TDK SA) or equivalent.
6. Resistors 100Ω (for measurement of the bias current)
   600Ω (for attenuator matching)

No.	Item	Procedure	Part	Rating	Remarks
1.	Level meter deflection	1. Set the deck in the record mode. 2. Input 1kHz signals from MIC or LINE IN jacks (with a level of −60dB approx. for MIC input or −10dBs approx. for LINE IN input.) Adjust the recording volume controls so that the voltage across LINE OUT is −4dBs. 3. Adjust two semi-fixed variable resistors R134(L-ch) R234(R-ch) so that the level meters indicate zero VU.	R134 R234	VU meter reading: 0	The angle of meter deflection has been factory-adjusted, but should be adjusted when parts are replaced.
2.	Reproduction level	Adjust R115 and R215 to obtain zero VU meter reading using reference tape VTT-664 1kHz 16mM (old ref. no. TMT-6009). Set equalizer switch in "NORMAL" position and turn off ANRS switch when adjusting reproduction level.	R115 R215	VU meter reading: 0	1. Adjust reproduction level when heads are replaced. 2. Make this adjustment after making sure level meter deflection angle is correct.
3.	Recording bias	1. Set the deck in the record 2. Connect a 100Ω resistor into the ground side (at recording mode) wiring of the head. 3. Connect the E. Voltmeter across the resistor, and measure its voltage. R/P HEAD (E. Voltmeter)  **Fig. 13** If no measuring apparatus is available, check in the following way. Music sound is not sonorous in the high range on playback: bias current is too high. Music sound is also sonorous in the high range on playback but distorted: bias current is too low.	SF/NORM tape: R555,557 SA/CrO2 tape: R556,558 (BIAS ADJ)	Approx. 37mV Approx. 47mV	1. Adjust recording bias current when heads are replaced. 2. Use a measuring apparatus of excellent frequency characteristic. 3. Be sure to connect resistor to head terminal. It is recommended to check the following after adjustment. (ANRS → OFF) (Set EQ and BIAS switches according to type of tape used.) Obtain zero VU meter reading at 1kHz, attenuate signal by 20dB, record and play at 1 and 10kHz. Then adjust bias current so that measuring apparatus shows the same output at 1 and 10kHz.  **Fig. 14** Attend the bias current to change with distortion affection.

No.	Item	Procedure	Part	Rating	Remarks
4.	Recording level	A: Adjustment for SF/NORM tape (Use JVC reference tape.) 1. Set the deck in the record mode. 2. Input 1kHz signals from MIC or AUX IN jacks and make recording in such a way that the level meters indicate zero VU. 3. Adjust R142 and R242 till reproduction level is reduced to zero when the reference tape is played. B: Adjustment for SA/CrO2 tape (Use JVC reference tape.) 1. Set the deck in the record mode. 2. Input 1kHz signals from MIC or AUX IN jacks and make recording in such a way that the level meters indicate zero VU. 3. Adjust R138, and R238 till reproduction level is reduced to zero when the reference tape is played.	R142,242 (REC LEVEL SF/NORM) R138,238 (REC LEVEL SA/CrO2)		1. This adjustment is necessary when heads are replaced. 2. Make this adjustment after adjusting level meter deflection angle, reproduction level and recording bias current. 3. Set EQ and BIAS switches according to type of tape used. 4. Turn off ANRS switch.
5.	ANRS circuit	1. Disconnect power connection receptable of bias oscillator so that oscillator does not operate. 2. Set the deck in the record mode. 3. Input 1kHz −10dBs signals from LINE IN jacks adjust the recording volume controls so that the voltage across LINE OUT is −5dBs. 4. Turn R335 and R435 (CONT GAIN) and R340 and R440 (DC BIAS) in the direction opposite to the marking. 5. Adjust R324 and R424 so that level does not change when ANRS is turned on and off, and turn on ANRS. 6. Input 1kHz, −50dBs signals from LINE IN. Adjust R340 and R440 so that voltage across LINE OUT is −39.5dBs. 7. Input 5kHz −30dBs signals from LINE IN. Adjust R335 and R435 so that voltage across LINE OUT is −21.5dBs. 8. Repeat steps (5) through (7). 9. Turn ANRS swtich in "Super" position when input 10kHz −10dBs signals from LINE IN. Check output levels are −11dBs ±2dB. 10. Connect receptable of bias oscillator that is disconnected in step (1). 11. Play reference tape VTT-664 and adjust R302 and R402 so that level does not change when ANRS is turned on and off.	R324,424 (REC GAIN) R340,440 (DC BIAS) R335,435 (CONT GAIN) R302,402 (PB GAIN)		
6.	Battery	1. Apply exactly 6V to battery contacts and switch the unit to play or fast forward. 2. Turn down battery check switch in "CHECK" position and adjust so that meter pointer deflects to the other end of green area.			Do not mistake one polarity for the other.  Fig. 15

Block Diagram

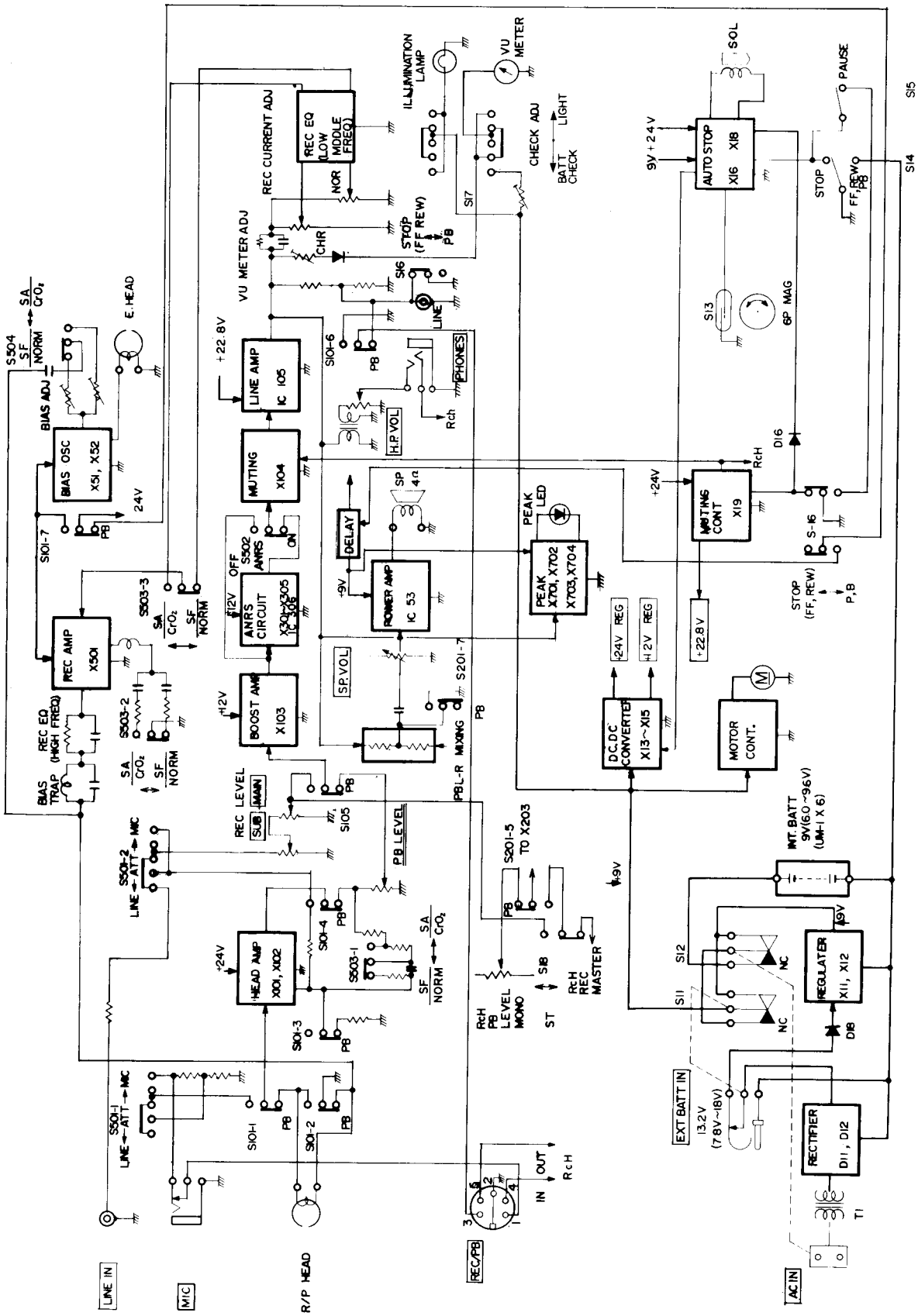


Fig. 16

Variable Resistor

R115,215	P.B Level Adj.	50kΩ
R134,234	Meter Adj.	2kΩ
R138,238	REC Level Adj. (chrome)	20kΩ
R142,242	" (normal)	20kΩ
R302,402	ANRS P.B Gain Adj.	10kΩ
R324,424	ANRS REC Gain Adj.	10kΩ
R335,435	ANRS Control Gain Adj.	20kΩ
R340,440	ANRS DC Bias Adj.	100kΩ
R556,558	Bias Current Adj. (chrome)	100kΩ
R555,557	" (normal)	200kΩ

Switch

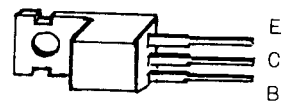
S101-1~7 (201)	REC-PB SW at "PB" mode
S301-1~4 (401)	
S501-1~2 (601)	INPUT SW at "LINE" mode
S502 (602)	ANRS SW at "OFF"
S503-1~3 (603)	EQ SW at SF / NORM
S504 (604)	BIAS SW at SF / NORM
S17-1~2	CHECK SW at "OFF"
S11	EXT. BATT JACK
S12	AC JACK
S13	REED SW
S14	POWER SW at "OFF"
S15	PAUSE SW at "OFF"
S16	MUTING SW
S18	REC MODE select SW at "Stereo" mode

Diode

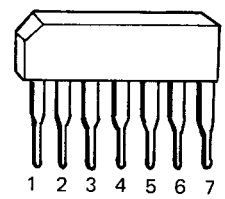
D101,201	1S188AM
D102,202	1S188AM
X103,203	MA-150
D301,401	1S188FM
D392,402	1S188FM
D31	MA26W
D11-1,-2 / D12-1,-2	10E1
XD13	RD10E(1)
D14	MA150
D15	1S188AM
D16	MA150
D17,18	10E1
D19	MA26W
ZD20	RD-22E(1)
D21	MA162
D22	MA161
D23	MA150
D24,25	MA150
D26	MA150
D701,702	MA150
D703	1S188FM
D704	MA150
D705	TLRG101
[SCR]	2SF656

Transistor & IC

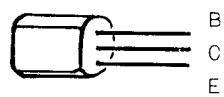
X101,201	2SA721(T,U)
X102,202	2SC1327(T,U)
X103,203	2SC1327(T,U)
X104,204	2SC828(R,S)
IC105,205	TA7066P(B)
X301,401	2SC1327(T,U)
X302,402	2SC933FP
X303,403	2SA721(T,U)
X304,404	2SC1327(T,U)
X305,405	2SC828(R)
IC306,406	TA7066P(B,C)
X501,601	2SC828A(R)
X51,52	2SC828A(R,S)
IC53	LA4012
X11	2SC828(R,S)
X12	2SD313(D,E)
X13	2SC828(R)
X14	2SC1384(R)
X15	2SC13S4(R)
X16	2SC828(R,S)
X17	2SC828A(R,S)
X18	2SA564A(R,S)
X19	2SA564A(R,S)
X20	2SC1383(R,S)
X21	2SC828(R,S)
X701,703,704	2SA564(R)
X702	2SC1317(R)



2SD313



TA7066P



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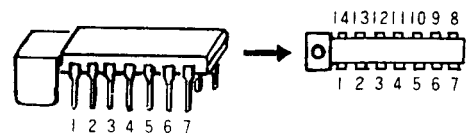
2SA564A
2SC933FP
2SC1317
2SA564



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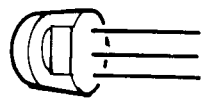
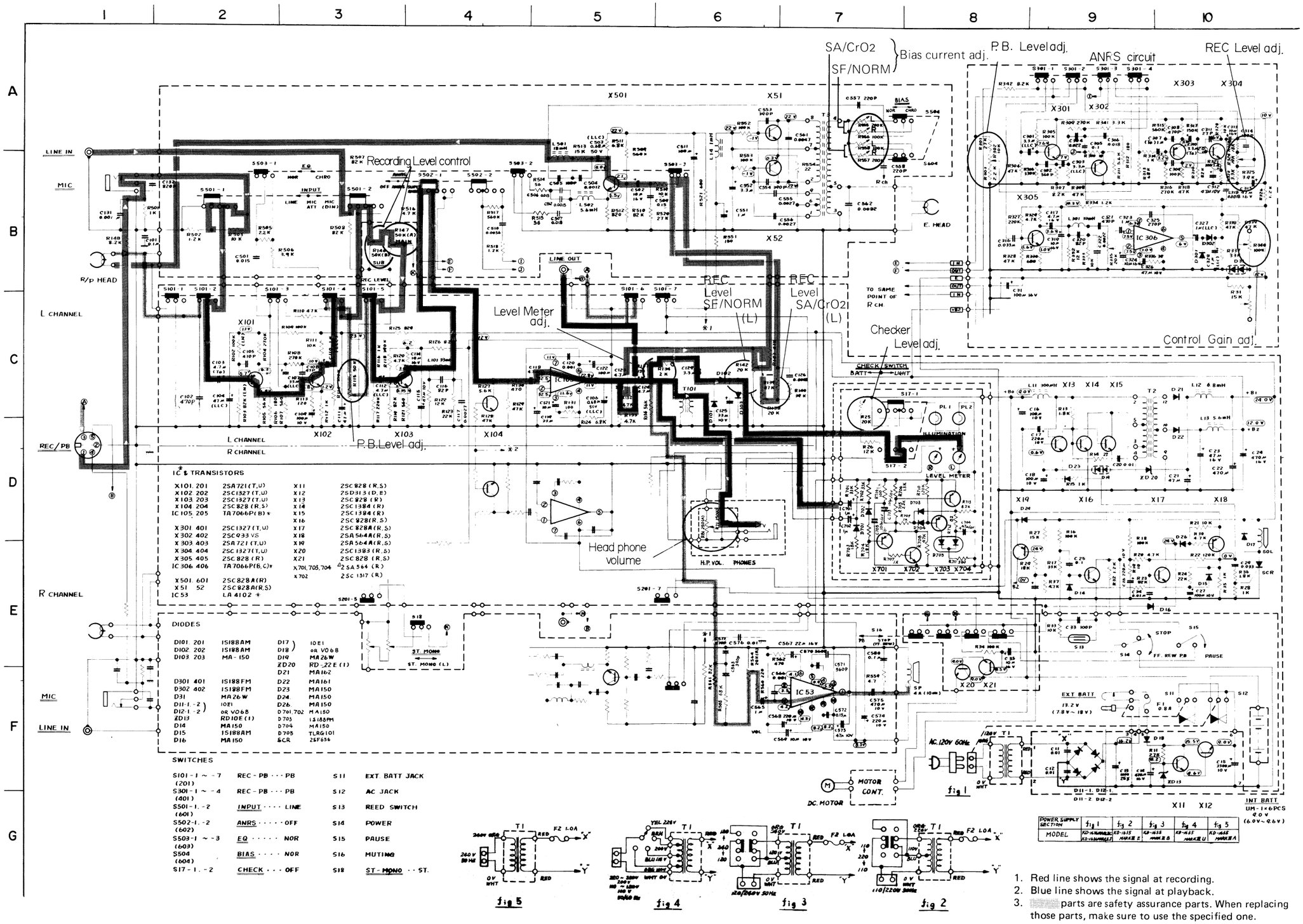


GREEN
COM(cathode)
RED

TLRG 101

Fig. 17

Standard Schematic Diagram of KD-1635 Mark III & KD-1636 Mark II



1. Red line shows the signal at recording.
2. Blue line shows the signal at playback.
3. parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 18

Wiring

KD-1636-2C/J

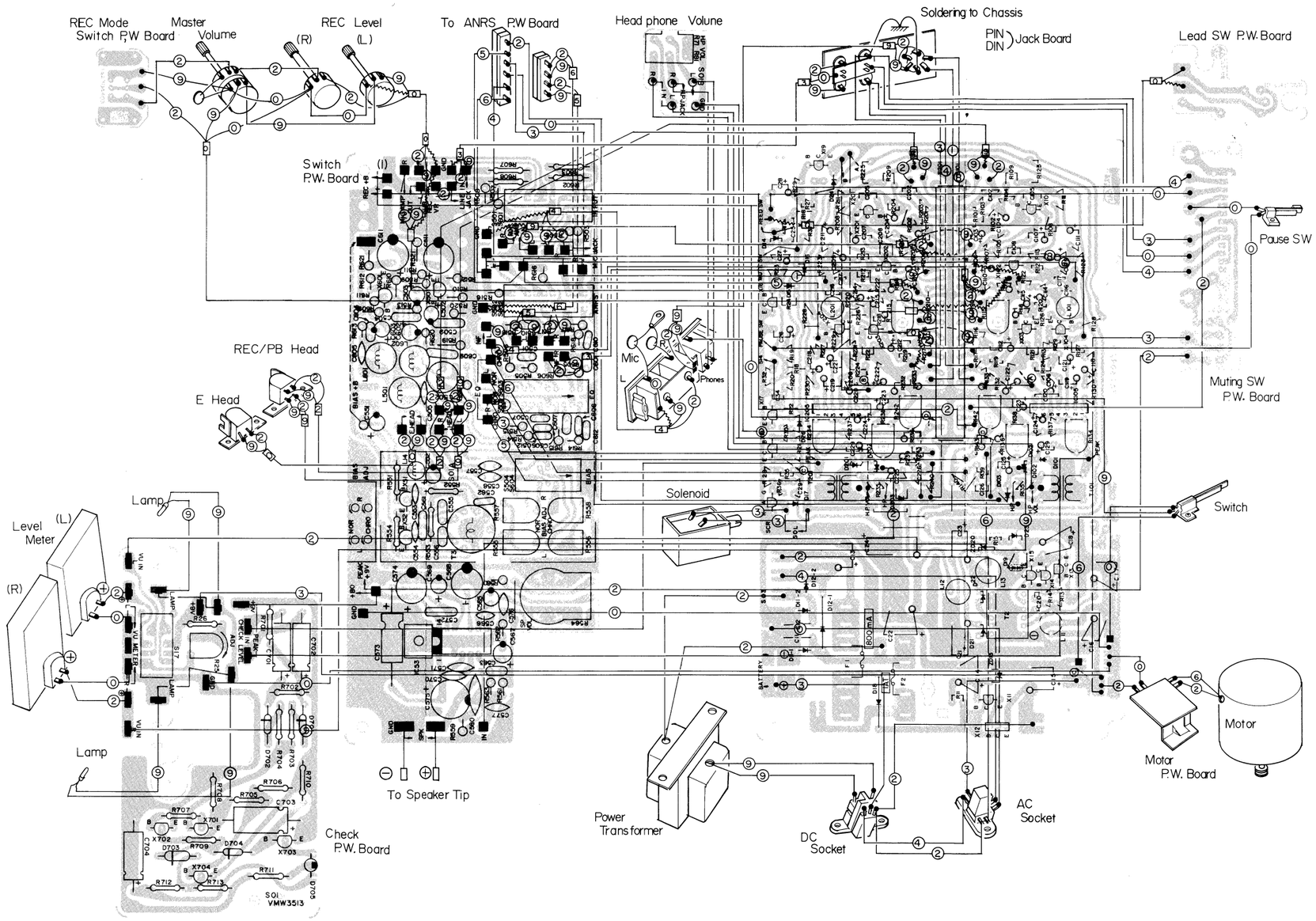
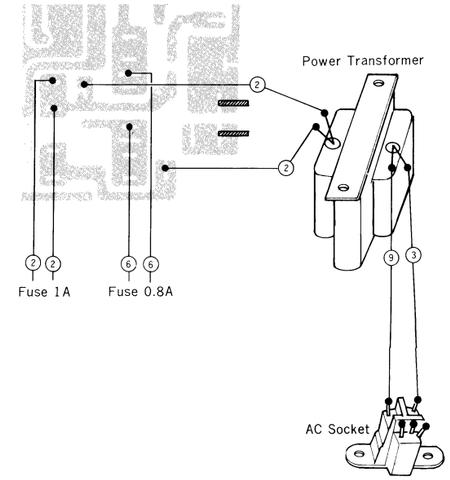
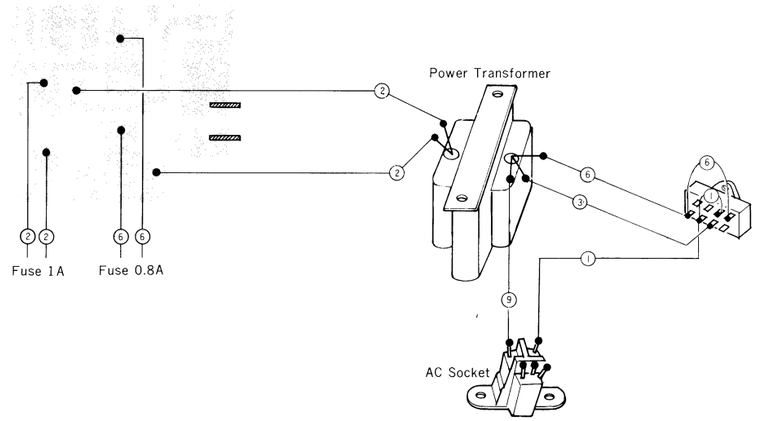


Fig. 19

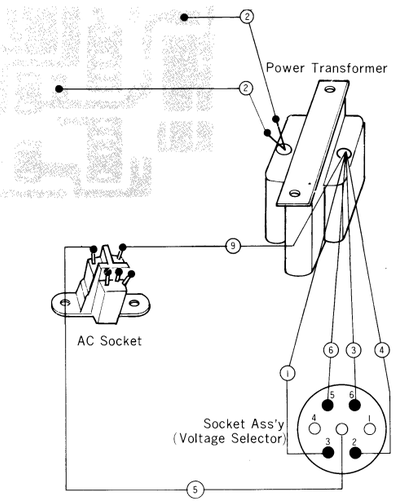
KD-1635-3A



KD-1635-3B/E



KD-1635-3U



Printed Wiring Board Parts

ANRS P.W. Board

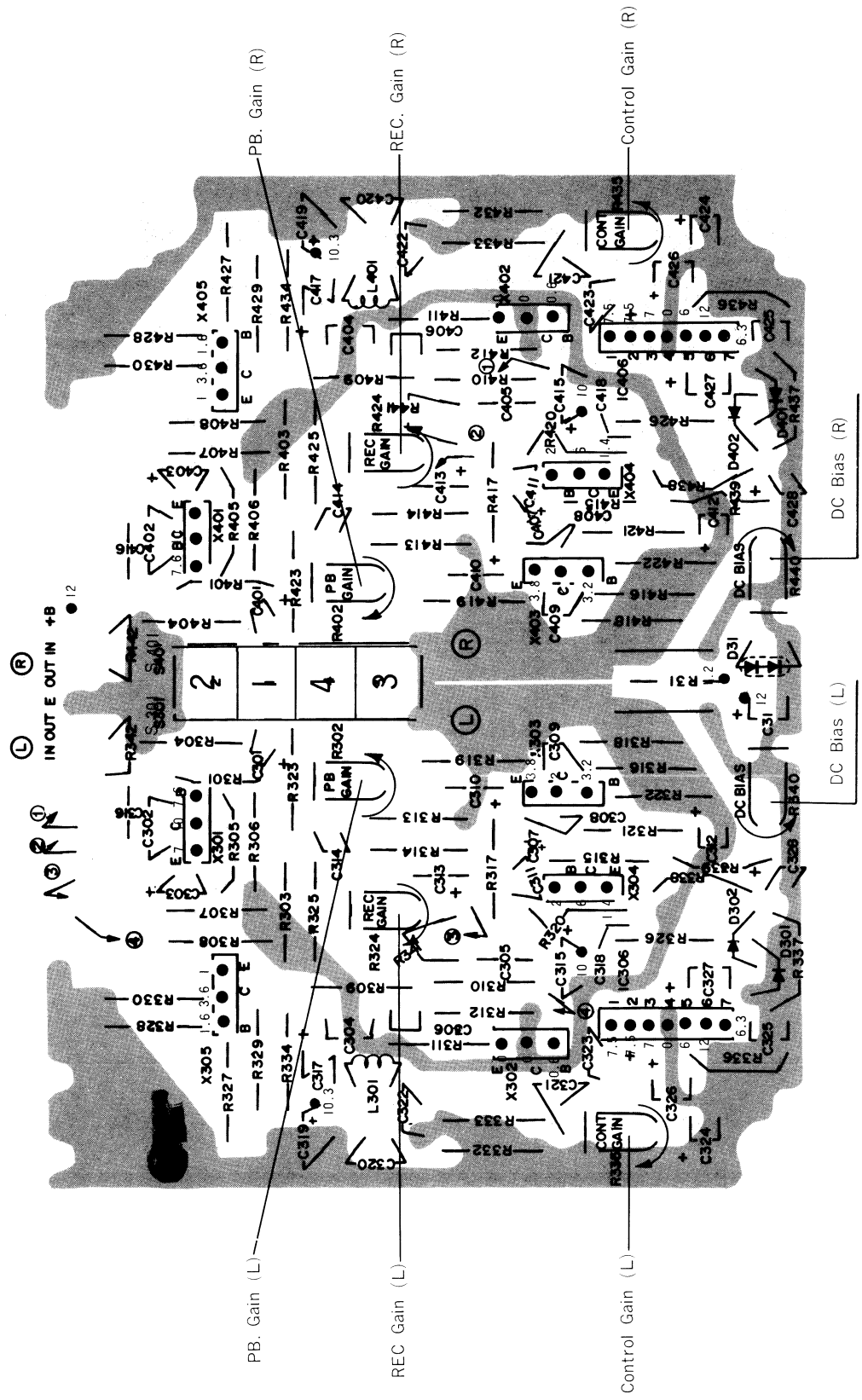


Fig. 20

ANRS P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks		Q'ty
	TAA304203-01	Circuit Board			1
S301,401	QSS8201-102	Slide Switch			1
	QMC0627-001	Plug Ass'y	6P		1
	QMC0427-001	〃	4P		1
R31	QRD142K-153	C. Resistor			1
R301,401	〃 -273	〃			2
R302,402,324,424	QVP8A0B-014	V. Resistor			4
R303,403	QRD142K-222	C. Resistor	2.2kΩ	¼W	2
R304,404,308,408 318,418,328,428, 338,438,339,439	〃 -473	〃	47kΩ	〃	12
R305,405	〃 -104	〃	100kΩ	〃	2
R306,406	〃 -334	〃	330kΩ	〃	2
R307,407	〃 -822	〃	8.2kΩ	〃	2
R309,409,316,416	〃 -274	〃	270kΩ	〃	4
R310,410	〃 -100	〃	10Ω	〃	2
R311,411	〃 -562	〃	5.6kΩ	〃	2
R312,412	〃 -181	〃	180Ω	〃	2
R313,413	〃 -683	〃	68kΩ	〃	2
R314,414	〃 -102	〃	1kΩ	〃	2
R315,415	〃 -564	〃	560kΩ	〃	2
R317,417	〃 -154	〃	150kΩ	〃	2
R319,419	〃 -823	〃	82kΩ	〃	2
R320,420,333,433	〃 -103	〃	10kΩ	〃	4
R321,421	〃 -101	〃	100Ω	〃	2
R322,422	〃 -332	〃	3.3kΩ	〃	2
R323,423	〃 -183	〃	18kΩ	〃	2
R325,425	〃 -392	〃	3.9kΩ	〃	2
R326,426,334,434	〃 -122	〃	1.2kΩ	〃	4
R327,427	〃 -224	〃	220kΩ	〃	2
R329,429	〃 -472	〃	4.7kΩ	〃	2
R330,430	〃 -681	〃	680Ω	〃	2
R332,432	〃 -123	〃	12kΩ	〃	2
R335,435	QVP8A0B-024	V. Resistor	20kΩ	B	2
R336,436	QRD142K-390	C. Resistor	39Ω	〃	2
R337,437	〃 -333	〃	33kΩ	〃	2
R340,440	QVP8A0B-015	V. Resistor	100kΩ	〃	2
R341,441	QRD143K-332	〃	3.3kΩ	〃	2
R342,442	〃 -822	〃	8.2kΩ	¼W	2
C31	QEW41CA-107N	E. Capacitor	100μF	16V	1
C301,401,303,403	QEB41EM-335N	LLC E. Capacitor	3.3μF	25V	4
C302,402	QCS11HK-561	Ceramic Capacitor	560pF	50V	2
C304,404	QFM41HK-223	Mylar Capacitor	0.022μF		2
C305,405	〃 -104	〃	0.1μF		2
C306,406	〃 -183	〃	0.018μF		2
C307,407	QEE41EM-105	Tantalum E. Capacitor	1μF	25V	2
C308,408,321,421	QCS11HK-471	Ceramic Capacitor	470pF	〃	4
C309,409	〃 -101	〃	100pF	〃	2
C310,410	QEE41EM-335	Tantalum E. Capacitor	3.3μF	〃	2
C311,411	QCS11HK-270	Ceramic Capacitor	27pF	50V	2
C312,412,326,426	QEW41AA-476N	E. Capacitor	47μF	10V	4
C313,413	QEW41CA-106M	〃	10μF	16V	2
C319,419	QEW41CA-106N	〃	〃	〃	2
C314,414	QCS11HK-181	Ceramic Capacitor	180pF	50V	2
C315,415	QEW41CA-476N	E. Capacitor	47μF	16V	2
C316,416	QFM41HK-333	Mylar Capacitor	0.033μF	50V	2
C317,417	QEW41CA-475N	E. Capacitor	47μF	16V	2
C318,418	QFM41HK-182	Mylar Capacitor	0.0018μF	50V	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C320,420	QCS11HJ-820	Ceramic Capacitor	82μF 50V	2
C322,422	QFM41HK-222	Mylar Capacitor	0.0022μF	2
C323,423	QEW41EA-105N	E. Capacitor	1μF 25V	2
C324,424	QEW41AA-106N	〃	10μF 10V	2
C325,425	QCS11HK-271	Ceramic Capacitor	270pF 50V	2
C327,427,328,428	QEB41EM-105N	LLC E. Capacitor	1μF 25V	4
L301,401	TAC000324-05	Inductor	33mH	2
X301,401,304,404	2SC1327(T,U)	Transistor		4
X302,402	2SD545NP-VS	〃		2
X303,403	2SA721(T,U)	〃		2
X305,405	2SC828(R)	〃		2
IC306,406	TA7066P(B,C)	IC		2
D31	MA26W	Varistor Diode		1
D301,401,302,402	1S188FM	Diode		4
	QMC0657-001	Socket Ass'y	6P	1
	QMC0457-001	〃	4P	1

Main Amp P.W. Board

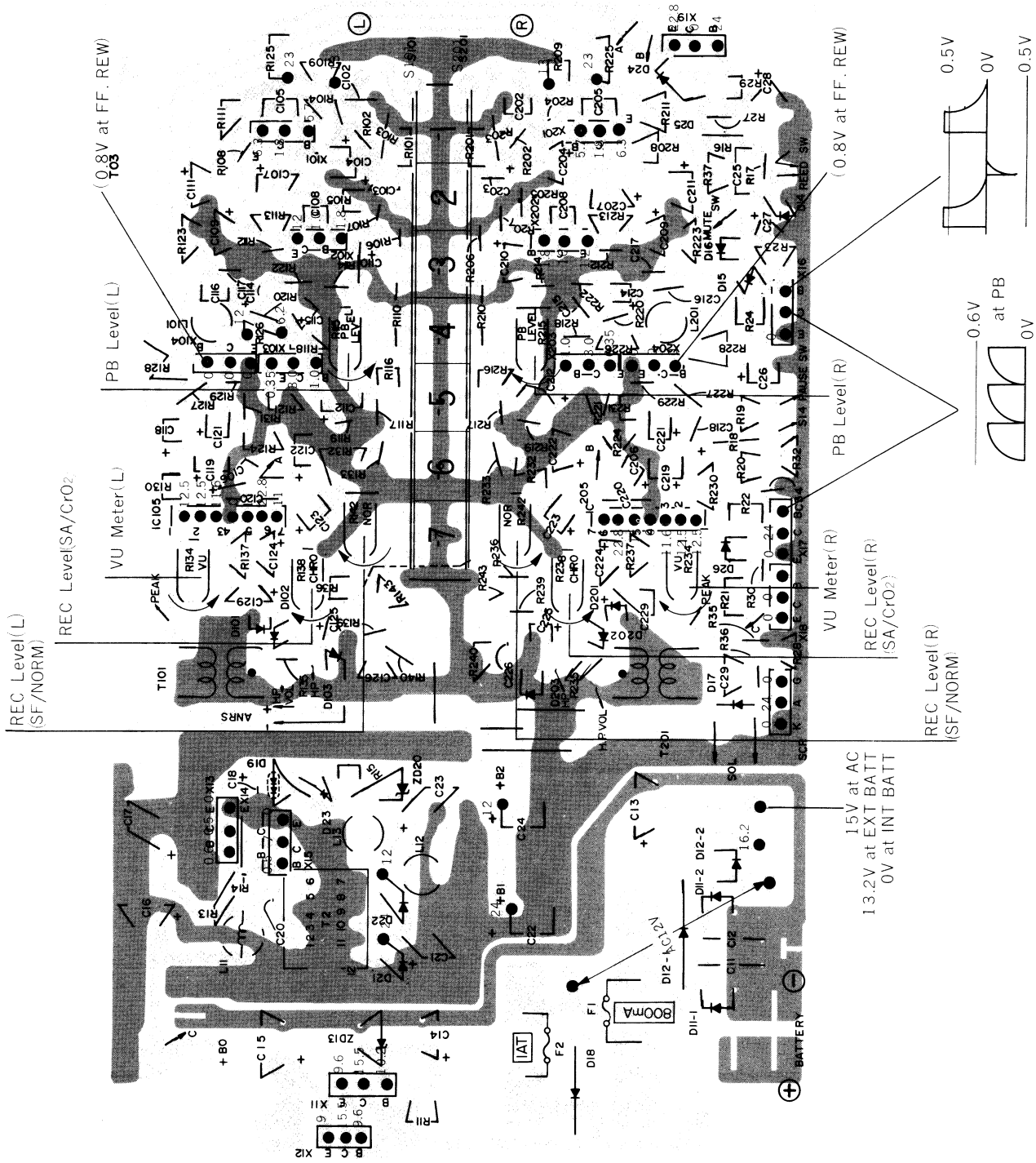


Fig. 21

Main Amp P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks		Q'ty
	*TAA304201-03	Circuit Board	No supply as assembly parts		1
(REC/PB AMP)					
S101,201	T31519-001	Slide Switch			1
R102,202	QRZ0019-104	C. Resistor (Low noise)	100kΩ	¼W	2
R103,203	〃 -823	〃 (〃)	82kΩ	〃	2
R105,205,136,326	QRD143K-563	C. Resistor	56kΩ	〃	4
R109,209,114,214	〃 -104	〃	100kΩ	〃	4
R119,219	〃 -823	〃	82kΩ	〃	2
R104,204,108,208	〃 -274	〃	270kΩ	〃	4
R106,206	〃 -221	〃	220Ω	〃	2
R107,207	〃 -391	〃	390Ω	〃	2
R110,210,128,228, 129,229,139,239, 143,243	〃 -473	〃	47kΩ	〃	10
R111,211	〃 -103	〃	10kΩ	〃	2
R112,212,116,216	〃 -102	〃	1kΩ	〃	4
R113,213	〃 -121	〃	120Ω	〃	2
R115,215	QVP8A0B-054	V. Resistor	50kΩ	〃	2
R117,217	QRD143K-224	C. Resistor	220kΩ	〃	2
R118,218	〃 -394	〃	220kΩ	〃	2
R119,219	〃 -823	〃	82kΩ	〃	2
R120,220,132,232, 133,233	〃 -472	〃	4.7kΩ	〃	2
R121,221	〃 -561	〃	560Ω	〃	2
R122,222	〃 -123	〃	12kΩ	〃	4
R123,223	〃 -223	〃	22kΩ	〃	2
R125,225	〃 -821	〃	820Ω	〃	2
R126,226	〃 -822	〃	8.2kΩ	〃	2
R127,227	〃 -562	〃	5.6kΩ	〃	2
R130,230	〃 -471	〃	470Ω	〃	2
R131,231	〃 -101	〃	100Ω	〃	2
R124,224	〃 -682	〃	6.8kΩ	〃	2
R134,234	QVP8A0B-023	V. Resistor	1kΩ	B	2
R137,237	QRD143K-151	C. Resistor	150Ω	¼W	2
R138,238,142,242	QVP8A0B-024	V. Resistor	20kΩ	B	4
R140,240	QRD143K-393	C. Resistor	39kΩ	¼W	2
C102,202,105,205	QCS11HK-471	Ceramic Capacitor	470pF	50V	4
C103,203	QEE41EM-475	Tantal E. Capacitor	47μF	25V	2
C104,204	QEB41EM-476M	LLC E. Capacitor	47μF	〃	2
C106,206	QEB41HM-684M	E. Capacitor	6.8μF	50V	2
C107,207	QEB41EM-336M	LLC E. Capacitor	33μF	25V	2
C108,208	QCS11HK-100	Ceramic Capacitor	10pF		2
C109,209	QEW41AA-107N	E. Capacitor	100μF	10V	2
C110,210	QEB41EM-105N	LLC E. Capacitor	1μF	25V	2
C111,211	QEW41EA-476N	E. Capacitor	47μF	〃	2
C112,212	QEB41EM-475N	LLC E. Capacitor	4.7μF	〃	2
C114,214	QEW41CA-106N	E. Capacitor	10μF	16V	2
C115,215	QEW41AA-476N	〃	47μF	10V	2
C116,216	QCS11HJ-820	Ceramic Capacitor	82pF	50V	2
C117,217	QFM41HJ-272	Mylar Capacitor	0.0027μF	50V	2
C118,218	QEW41EM-475N	LLC E. Capacitor	4.7μF	25V	2
C123,223,124,224	QEW41EA-475N	E. Capacitor	〃	〃	4
C119,219	〃 -336N	〃	33μF	〃	2
C120,220	QFM41HK-102	Mylar Capacitor	1000pF	50V	2
C121,221	QEW41EA-106N	E. Capacitor	10μF	25V	2
C122,222	QEW41EA-107N	〃	100μF	〃	2
C125,225	QEW41AA-336N	〃	33μF		2
C126,226	QFM41HK-182	Mylar Capacitor	1800pF	50V	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C129,229	QEW41EA-335N	E. Capacitor	3.3μF 25V	2
L101,201	TAC000324-05	Inductor	33mH	2
T101,201	T44944-001	H.P. Trans		2
X101,201	2SA721(T,U)	Transistor		2
X102,202,103,203	2SC1327(T,U)	〃		4
X104,204	2SC828(R,S)	〃		2
IC105,205	TA7066P(B)	IC		2
D103,203	MA150	Diode		2
D101,102,201,202	1S188AM	〃		4
(Power Supply)				
R11	QRD143K-272	C. Resistor	2.7kΩ ¼W	1
C11,12	QCF12HP-103	Ceramic Capacitor	0.01μF 〃	2
C13	QEW41EA-108N	E. Capacitor	1000μF 25V	1
C14	QEW41CA-477N	〃	470μF 16V	1
C15	QEW41AA-338N	〃	3300μF 10V	1
X11	2SC828(R,S)	Transistor		1
X12	2SD313(D,E)	〃		1
D11-1,-2,12-1,-2, 18	10E1	Diode		5
ZD13	RD10E(I)	Zener Diode		1
	TAR271478-01	Heat Sink		1
	DPSP3008ZS	Screw		1
(DC-DC Converter)				
R13	QRD143K-182	C. Resistor	1.8kΩ ¼W	1
R14	〃 -220	〃	22Ω 〃	1
R15	〃 -102	〃	1kΩ 〃	1
C16,18	QEW41AA-107N	E. Capacitor	100μF 10V	2
C17	〃 -227N	〃	220μF 〃	1
C20	QFM41HJ-103	Mylar Capacitor	0.01μF 50V	1
C21	QEW41EA-476	E. Capacitor	47μF 25V	1
C22	〃 -477	〃	470μF 〃	1
C23	QEW41CA-476N	〃	47μF 〃	1
C24	〃 -477N	〃	470μF 〃	1
L11	TAC000330-01	Inductor	300μF	1
L12	TAC000324-02	〃	6.8mH	1
L13	〃 -04	〃	5.6mH	1
X13	2SC828(R)	Transistor		1
X14,15	2SC1384(R)	〃		2
D19	MA26W	Varistor		1
ZD20	RD22E(I)	Zener Diode		1
D21	MA162	Diode		1
D22	MA161	〃		1
D23	MA150	〃		1
T2	TAZ271302-01	Converter Trans		1
	TAS271405-01	Converter Case (A)		1
	TAS271406-01	〃 (B)		1
(Auto Stop & Mute)				
R16,18	QRD143K-104	C. Resistor	100kΩ ¼W	2
R17	〃 -333	〃	33kΩ 〃	1
R19	〃 -100	〃	10Ω 〃	1
R20,30,37	〃 -472	〃	4.7kΩ 〃	3
R21	〃 -103	〃	10kΩ 〃	1
R22	〃 -124	〃	120kΩ 〃	1
R23	〃 -823	〃	82kΩ 〃	1
R24	〃 -223	〃	22kΩ 〃	1
R27	〃 -153	〃	1kΩ 〃	1
R28,35	〃 -102	〃	15kΩ 〃	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R29	QRD143K-183	C. Resistor	18kΩ ¼W	1
R32	〃 -122	〃	1.2kΩ 〃	1
R36	〃 -182	〃	1.8kΩ 〃	1
C25	QFM41HK-104	Mylar Capacitor	0.1μF 50V	1
C26	QEW41AA-227M	E. Capacitor	220μF 10V	1
C27	QEW41AA-107M	〃	100μF 〃	1
C28	QEB41EM-336M	LLC E. Capacitor	33μF 25V	1
C29	QFM41HK-333	Mylar Capacitor	0.033μF 50V	1
C34	QCF11HP-103	Ceramic Capacitor	0.01μF	1
X16	2SC828(R,S)	Transistor		1
X17	2SC828A(R,S)	〃		1
X18,19	2SA564A(R,S)	〃		2
D14,16,24,26	MA150	Diode		4
D15	1S188AM	〃		1
D17	10E1	〃		1
	2SF656	S.C.R		1
	E40516-001	Tab		10
	A43596-001	〃		2
	LPSP3006VS	Screw	for Heat Sink	2

Switch P.W. Board

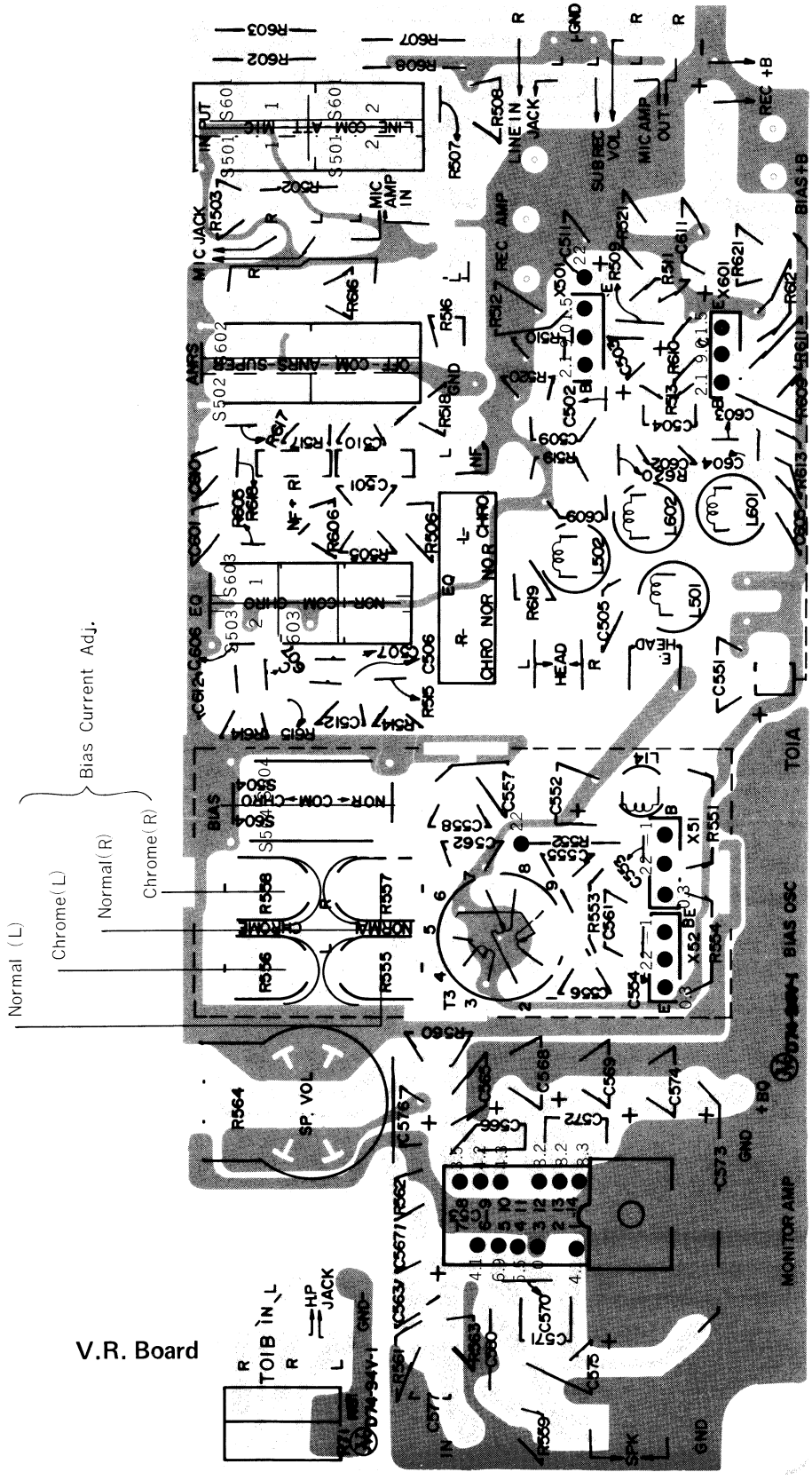


Fig. 22

Switch P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	VMW2507-001	Circuit Board		1
	E43727-002	Wrapping Pin		43
	E40516-001	Tab		2
	EG9010-001	〃		1
	QSL4324-001	Lever Switch	for INPUT Select	1
	QSL4324-001	〃	for ANRS	1
	QSL2218-112	〃	for BIAS	1
	QSL6220-001	〃	for EQ	1
	LPSP2606V	Screw		2
R564	QVG9A2A-024	V. Resistor	for Volume	1
(Rec Amp)				
R502	QRD143K-122	C. Resistor	1.2kΩ ¼W	1
R602	QRD142K-122	〃	1.2kΩ 〃	1
R503	QRD143K-103	〃	10kΩ 〃	1
R603	QRD142K-103	〃	10kΩ 〃	1
R505,605	QRD143K-222	〃	2.2kΩ 〃	2
R506,606	〃 -392	〃	3.9kΩ 〃	2
R507,508,510,610	〃 -823	〃	82kΩ 〃	4
R607,608	QRD142K-823	〃	82kΩ 〃	2
R509,609,517,617	QRD143K-564	〃	560kΩ 〃	4
R511,611	〃 -682	〃	6.8kΩ 〃	2
R512,612	〃 -821	〃	820Ω 〃	2
R513,613	〃 -153	〃	15kΩ 〃	2
R514,614,515,615	〃 -560	〃	56Ω 〃	4
R516,616	〃 -472	〃	4.7kΩ 〃	2
R518,618	〃 -122	〃	1.2kΩ 〃	2
R519,619	〃 -103	〃	10kΩ 〃	2
R520,620	〃 -273	〃	27kΩ 〃	2
R521,621	〃 -681	〃	680Ω 〃	2
C501,601,506,606	QFM41HJ-153	Mylar Capacitor	0.015μF 50V	4
C502,602	QEW41CA-106N	E. Capacitor	10μF 25V	2
C503,603	QEB41HM-684M	〃		2
C504,604	QFM41HK-122	Mylar Capacitor		2
C505,605	QCS12HJ-151	Ceramic Capacitor	150pF 500V	2
C507,607	QFM41HJ-183	〃	0.018μF 50V	2
C509,609	QFM41HK-154	〃	0.15μF 〃	2
C510,610	〃 -562	〃	0.0056μF 〃	2
C511,611	QEW41EA-107N	E. Capacitor		2
C512,612	QFM41HJ-152	Mylar Capacitor	0.0015μF 50V	2
L501,601	TAC000324-01	Inductor	18mH	2
L502,602	TAC000324-04	〃	5.6mH	2
X501,601	2SC828A(R)	Transistor		2
(OSC Circuit)				
T3	TAB265401-01	OSC Coil		1
R551	QRD146K-151	C. Resistor	150Ω ¼W	1
R552,553	QRD142K-104	〃	100kΩ	2
R554	〃 -220	〃	22Ω ¼W	1
R555,557	QVP8A0B-025	V. Resistor		2
R556,558	〃 -015	〃		2
C551	QEW41HA-105N	E. Capacitor	10μF 50V	1
C552	QEW41EA-335N	〃	3.3μF 〃	1
C553,554	QCS11HK-391	Ceramic Capacitor	390pF 〃	2
C555,556	QFM41HK-272	Mylar Capacitor	0.0027μF 〃	2
C557,558	QCS12HK-221	Ceramic Capacitor	220pF 500V	2
C561	QFZ0001-472	Polypropylene Capacitor	0.047μF	1
C562	〃 -822	〃	0.0082μF	1
L14	T40442-002	Inductor	1mH	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
X51,52	2SC828A(R,S)	Transistor		2
	TAS271320-01	OSC Case (A)		1
	TAS271479-01	" (B)		1
(Monitor Amp)				
R559	QRD143K-4R7	C. Resistor	4.7Ω ¼W	1
R560	" -221	"	220Ω "	1
R561	" -823	"	82kΩ ¼W	1
R562	" -471	"	470Ω "	1
R563	" -683	"	68kΩ ¼W	1
C563	QCF11HK-391	Ceramic Capacitor	390pF 50V	1
C565	QEW41HA-105N	E. Capacitor	1μF 25V	1
C566	QCF11HP-102	Ceramic Capacitor	1000pF 50V	1
C567	QEW41CA-226N	E. Capacitor	22μF 16V	1
C568,574	QEW41AA-227N	"	220μF "	2
C569	" -106N	"	10μF "	1
C570,571	QCS11HK-561	Ceramic Capacitor	560pF 50V	2
C572	QFM41HK-154	Mylar Capacitor	0.15μF "	1
C573	QEW21AA-476N	E. Capacitor	47μF 16V	1
C574	QEW41AA-227	"	220μF 10V	1
C575	" -477N	"	470μF "	1
C576	QCF11HP-103	Ceramic Capacitor	0.01μF 50V	1
IC53	LA4102	IC		1
C577	QCS11HK-471	Ceramic Capacitor	470pF 50V	1
C580	QCF41EZ-104	"	0.15μF "	1
	VMW2507-001B	Circuit Board		1
R71,R81	QVD7A2C-0F2	V. Resistor	for Headphones (L & R) (It assemble to the V.R. board)	1

Peak P.W. Board

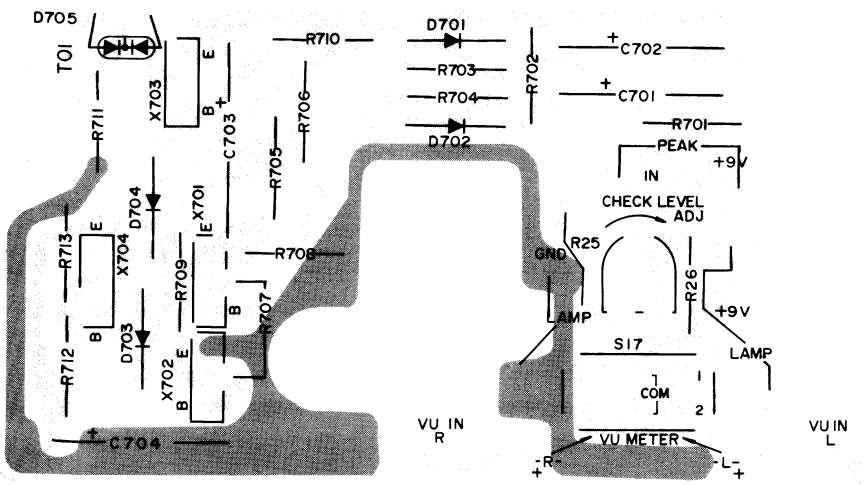


Fig. 23

Reed SW. P.W. Board

Fig. 24

REC. MODE SW. P.W. Board

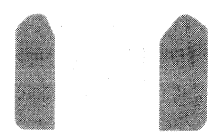


Fig. 25

PIN Board

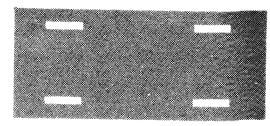


Fig. 26

Muting P.W. Board

Fig. 27

Mic Jack P.W. Board

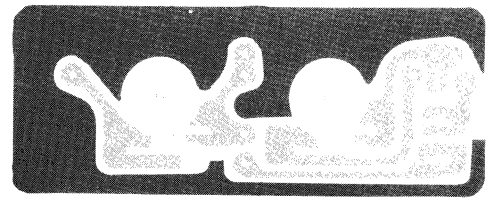


Fig. 28

Peak P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	*VMW3513-002	Circuit Board		1
	E40516-001	Tab		15
	QSL2318-001	Lever Switch	Check	1
	T46729-002	Lamp	6.3V 70mA	2
R701,702	QRD142K-333	C. Resistor	33kΩ ¼W	2
R703,704	" -183	"	18kΩ "	2
R705	" -222	"	2.2kΩ "	1
R706	" -152	"	1.5kΩ "	1
R707,709	" -102	"	1kΩ "	2
R708	" -473	"	47kΩ "	1
R710	" -124	"	120kΩ "	1
R711	" -561	"	560Ω "	1
R712	" -820	"	82Ω "	1
R713	" -822	"	8.2kΩ "	1
R714	" -101	"	100Ω "	1
R25	QVP8A0B-024	V. Resistor		1
C701,702	QEW21HA-105N	E. Capacitor	1μF 50V	2
C703	QEW21AA-107N	"	100μF 10V	1
C704	QEW21AA-476N	"	47μF 10V	1
C705	QEW41AA-107N	"	100μF 10V	1
R26	QRD142K-123	C. Resistor	12kΩ ¼W	1
X701,703,704	2SA564(R)	Transistor		3
X702	2SC1317(R)	"		1
D701,702,704	MA150	Diode		3
D703	1S188FM	"		1
D705	*TLRG101	L.E.D.		1

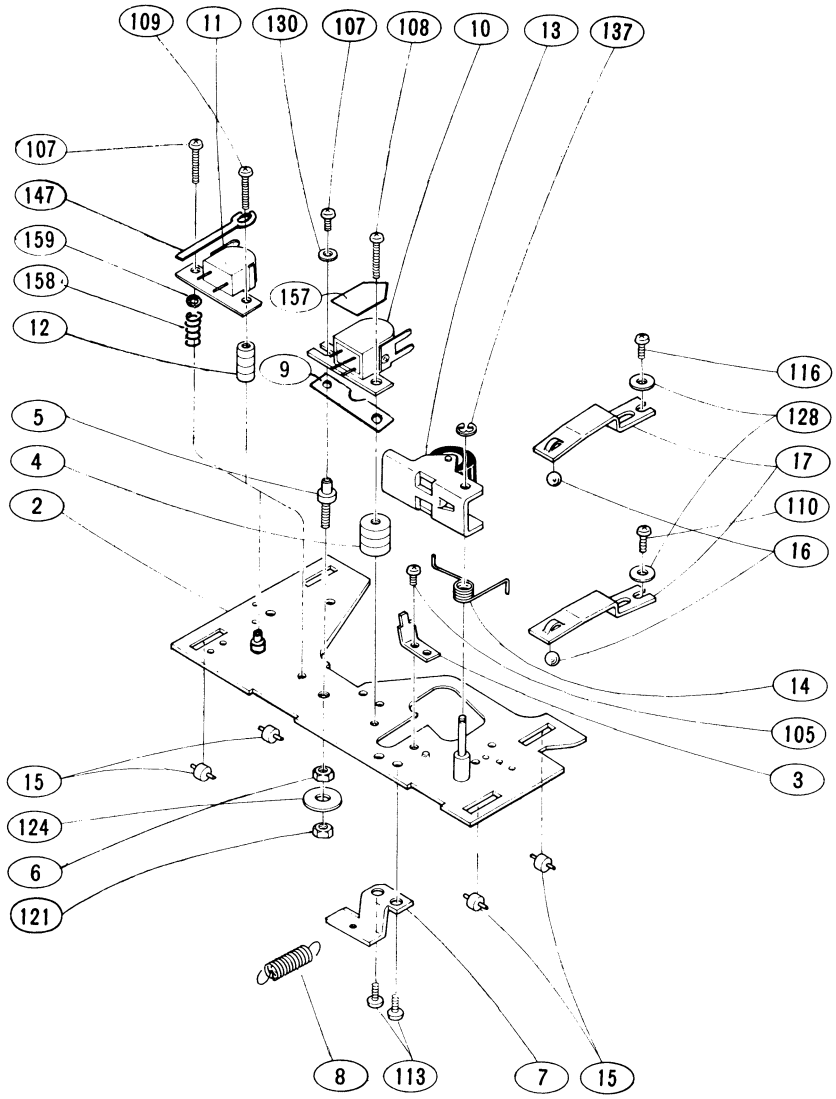
Muting P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	TAA271507-01	Circuit Board		1
	QSS4201-011	Slide Switch	for muting switch	1
R34	QRD143K-104	C. Resistor	100kΩ ¼W	1
C35	QEW41CA-106N	E. Capacitor	10μF 16V	1
X20	2SC1383(R,S)	Transistor		1
X21	2SC828(R,S)	"		1
	TFB271476-01	Switch Bracket		1
	SBSB3006Z	Tapping Screw		2
	WBS3000	T. Lock Washer		1

Mic Jack P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	TAA304402-01	Circuit Board	for Mic jack	1
R148,248	QRD143K-822	C. Resistor	8.2kΩ ¼W	2
C131,231	QCY41HK-102	Ceramic Capacitor	0.001μF	2
C132 232	QCS11HK-821	"	820PF	2
R501,601	QRD143K-102	C. Resistor	1kΩ	2
C101,201	QCF41EZ-104	Ceramic Capacitor	0.1μF	2

Mechanical Components



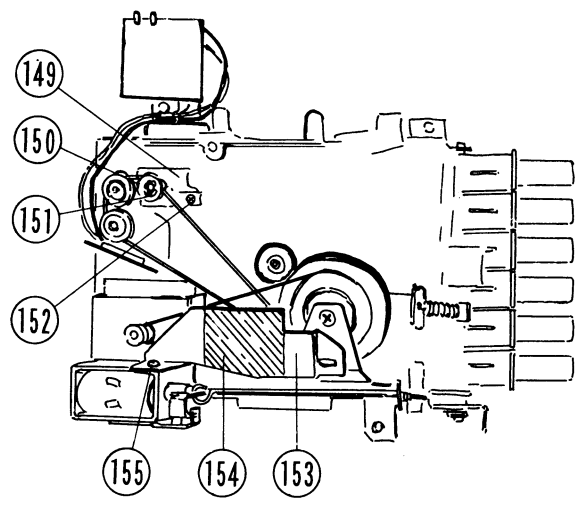


Fig. 29

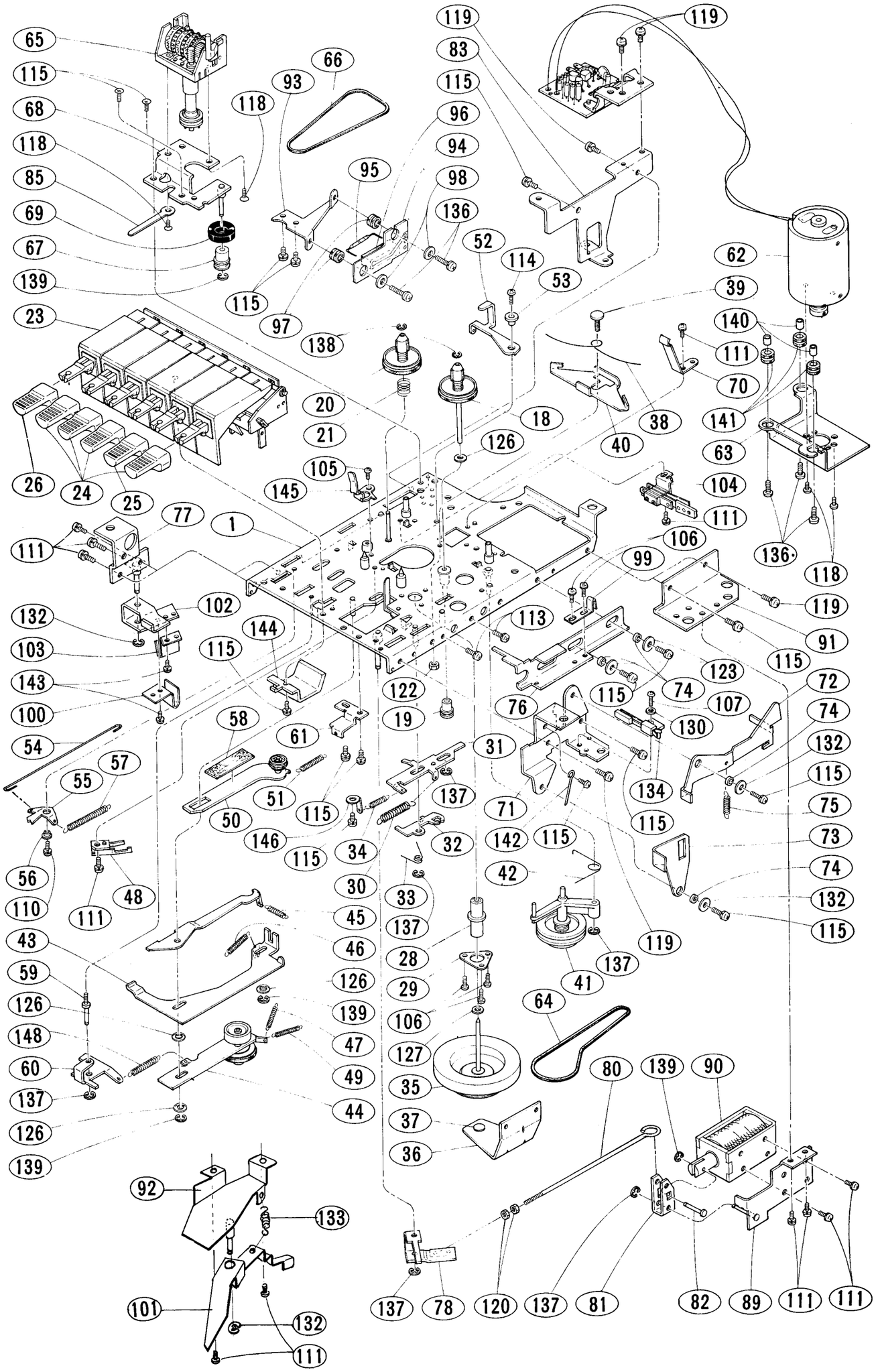

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Fig. 30

Mechanical Component List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	T30987-00F	Chassis Base Ass'y		1
2	T43081-00D	Head Panel Ass'y		1
3	T43080-001	Bracket		1
4	T45799-004	Head Stud		1
5	T42045-001	"		1
6	T42046-001	Special Nut		1
7	TFB267475-01	Head Panel Bracket		1
8	160508T	Spring		1
9	1310403T	R.P. Head Spring		1
10	ZMM074401-0A	R.P. Head Ass'y		1
11	THS000481-0A	E. Head Ass'y		1
12	TFH267424-03	E. Head Stud		1
13	3050485ZT	Pinch Roller Arm Ass'y		1
14	T45138-001	Pinch Roller Spring		1
15	T42057-001	Head Panel Roller		4
16	T41615-003	Bowl Bearing	3mm	2
17	2010303T	Head Panel Spring		2
18	T42674-00A	Reel Disk Ass'y (2)		1
19	TEP267464-01	Counter Drive Pulley		1
20	T42059-00C	Reel Disk Ass'y		1
21	T42051-009	Spring		1
22	TGT271322-0A	Push Button Case Ass'y		1
23	TJB271314-01	Push Button Base		6
24	TJB271506-0A	Push Button Ass'y		4
25	" -0B	"		1
26	" -0C	"		1
27	T30300-135	Spring	for Cam	1
28	T45809-001	Capstan Metal Ass'y		1
29	T42071-001	Metal Stopper		1
30	T30300-120	Spring	Pause Lever — Button Lever	1
31	T43084-00C	Lever Ass'y		1
32	4180408T-01	Lock Plate		1
33	T43070-001	Spring		1
34	T42049-003	"		1
35	TEW267429-0D	Flywheel Ass'y		1
36	TFB267474-02	Flywheel Holder		1
37	2380905T	Thrust Bearing		1
38	T42076-001	Brake Arm Spring		6
39	T42077-001	Brake Arm Shaft		4
40	T42075-001	Brake Arm		1
41	TGP000465-0B	Take Up Idler Arm Ass'y		1
42	T45139-01	Take Up Wheel Spring		1
43	T42088-001	Brake Bar		1
44	TFB267511-0A	F.F. Idler Arm Ass'y		1
45	T30300-120	Spring	F.F. Idler — F.F. Lever	1
46	T42049-003	"	Brake Bar - F.F. Idler Arm	1
47	5850801T	"	F.F. Idler — F.F. Lever	1
48	T45822-002	F.F. Arm Guide Plate		1
49	T42049-023	Spring	Brake Bar — F.F. Idler Arm	1
50	T42098-00D	Rew Arm Ass'y		1
51	T42049-009	Spring	Brake Bar — REW Idler Arm	1
52	T45717-001	Kick Lever		1
53	T42105-001	Metal		1
54	T42106-001	Rec Rod		1
55	T42107-001	Rec Lever		1
56	T42105-001	Metal		1
57	T41049-005	Spring		1
58	T40173-019	Cushion		1
59	T42109-001	F.F. Shaft		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
60	T43654-002	F.F. Lever (3)		1
61	T43068-001	Bracket		1
62	m207-00B	Motor Ass'y		1
63	TFB271487-01	Motor Bracket		1
64	TEB000464-02	Capstan Belt		1
65	*TGN304302-0A	Counter Ass'y		1
66	T45786-002	Counter Belt		1
67	TGP271512-0B	Magnet Pulley Ass'y		1
68	TGB271513-0A	Counter Bracket Ass'y		1
69	TDZ271434-01	Magnet		1
70	T1490105T-002	Spring Plate	for Eject	1
71	TFB271446-01	Eject Lever Bracket		1
72	TFB271447-01	Eject Lever		1
73	TFB271448-01	Eject Kick Lever		1
74	T30302-036	Coller		4
75	481008T-01	Spring		1
76	TFB271449-01	Slide Bar		1
77	TFB271457-0A	Record Bracket Ass'y		1
78	TFB271470-01	Auto Stop Lever		1
79	T30300-081	Spring	for Auto Stop Lever	1
80	TFW271475-01	Auto Stop Rod		1
81	TFB271472-01	Auto Stop Arm		1
82	TFH271471-01	Rod		1
83	TFB271315-01	C. Board Bracket		1
84	S4709-001	Wire Clamp		1
85	04224-0-2	Vinyl Tube		1
86	04225-L-1.7	"		1
87	04224-L-1.7	"		2
88	T30301-100	Spring	for Solenoid	1
89	5641481T	Solenoid Bracket Ass'y		1
90	T44546-001	DC. Solenoid		1
91	TFB271450-01	Slide Bracket		1
92	TFB271456-0A	Bracket Ass'y	ANRS	1
93	TFB271413-01	Read Switch Bracket		1
94	TAA271402-01	Read Switch C. Board		1
95	TDS271409-01	Read Switch		1
96	TER271414-01	Spacer		1
97	53492	Rubber Bushing		4
98	T30302-063	Coller		2
99	TFP271491-01	Switch Spring		1
100	TFP271490-01	ANRS Spring Plate		1
101	TFB271453-01	Record Lever	for ANRS	1
102	TFB271458-01	"	for REC/PB	1
103	TFP271498-01	REC Spring Plate		1
104	T30515-00B	Switch Ass'y	for Power SW	1
105	SPSP2003Z	Screw		1
106	SPSP2004Z	"	for SW Spring	1
107	SPSP2006Z	"	for Power SW, PAUSE SW	2
108	SPSP2010Z	"		1
109	SPSP2014Z	"		1
110	SPSP2604Z	"		1
111	LPSP2604Z	"	ANRS Spring Plate, Muting SW Motor SW, FF Arm Guide Plate	9
112	SPSP2605Z	"		2
113	LPSP2605Z	"	Flywheel Holder	6
114	SPSP2606Z	"	Kick Lever	6
115	LPSP2606Z	"	Lead SW Bracket	4
116	SPSP2608Z	"		1
117	SPSP2610Z	"		2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
118	SPSP3004ZS	Screw		5
119	LPSP3006ZS	〃		4
120	NNB2000	Nut		2
121	NNB2600N	〃		1
122	NTB2600N	〃	Brake Arm	1
123	Q03091-130	Washer		4
124	Q03091-150	〃		1
125	Q03093-115	〃		2
126	Q03093-609	〃		4
127	Q03093-612	〃		1
128	WNB2600N	〃		2
129	WNS3000Z	〃		3
130	WNE2000	〃	Pause SW, SW Spring	4
131	WNB2600	〃	Lead SW Plate	2
132	REE3000	E. Ring	Record Lever	2
133	T30300-131	Spring	ANRS Record Lever	1
134	TDS000334-02	Switch	Pause SW	1
135	SPSP2008Z	Screw	〃	1
136	LPSP2610Z	〃	Lead SW Plate, Motor Bracket	5
137	REE2000	E. Ring	Lock Plate, Takeup Ass'y, Pinch Roller, Lever Ass'y	4
138	REE1200	〃	Reel Disk	2
139	REE1500	〃	Brake Bar	4
140	581009T	Motor Collar		3
141	581006T	Motor Rubber		3
142	T43088-001	Spring		1
143	LPSP2504Z	Screw		2
144	TFB271486-01	Button Case Bracket		1
145	T44181-001	Cassette Guide		1
146	021502T	Lug		1
147	T65640-001	Wire Clamp		1
148	T42049-008	Spring		1
149	TGB271514-0A	Pulley Bracket Ass'y		1
150	TGP271512-0B	Magnet Pulley Ass'y		1
151	REE2000	E. Ring		1
152	LPSP2004Z	Screw		5
153	TAS271505-01	Shield Plate		1
154	TJN271504-01	Spacer		1
155	LPSP2603Z	Screw		1
156	Q04109-0-0.7	Vinyl Tube		1
157	THC037417-02	Head Plate	for REC/PB Head	1
158	480408T	Spring		1
159	WNS2000N	Washer		1
	THS000489-02	Head Label	for E. Head	1

Enclosure Assembly Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1~6	*TJM271101-0F	Top Panel Ass'y		1 set
1	TJM271102-04	Top Panel		1
2	TJD304404-01	Counter Plate		1
3	T47610-001	Refrection Plate		1
4	TJN271422-01	Speaker Net		1
5~6	TJG270451-0C	Cassette Lid Ass'y	Top Panel Ass'y	1 set
5	TJG270201-04	Cassette Lid		1
6	TJE271424-02	Finder		1
7	TFB271425-01	Lid Holder		2
8	R47004-002	Spring		1
9	T48181-001	Bracket		1
10	TJL000471-01	Mark Ass'y		1
11	*TJP304202-04	Control Plate	KD-1636-2C/J	1
	* " -05	"	KD-1635-3A/B/E	1
12	TJL271485-01	Mark		1
13	TJH271426-0C	Belt Holder Ass'y		2 set
15	TJP304303-01	Side Plate	(Right)	1
16	TJP304304-01	"	(Left)	1
17~20	*TJM271207-0E	Front Panel Ass'y		1 set
17	*TJM271208-06	Front Panel		1
18	TJB271429-02	Eject Button		1
19	T30301-105	Spring		1
20	T42006-001	Bracket		1
21	TJP304405-01	Front Plate (1)		1
22	TJP304305-01	" (2)		1
23~28	TJM271209-0C	Bottom Cover Ass'y		1 set
23	TJM271103-02	Bottom Cover		1
24	TJN271464-02	Net		2
25	T41240-001	Battery Contact	(+)	2
26	T41347-00A	Battery Contact Ass'y	(-)	2
27	T44576-001	Tape		1
28	T42479-001	Foot		4
29~30	TJM271432-0C	Battery Cover Ass'y		1
29	TJM271313-02	Battery Cover		1
30	TJN271433-02	Cushion		1
31	TJK304410-01	Switch Knob		6
32	TJK304416-01	Knob		4
33	TJK304411-0A	Master Knob Ass'y		1
34	*VYN3011-001JA	Name Plate	KD-1635-3B	1
	* " -002JA	"	KD-1635-3A	1
	* " -003JA	"	KD-1636-2C	1
	* " -004JA	"	KD-1635-3E	1
	* " -005JA	"	KD-1636-2J	1
	* " -006JA	"	KD-1635-3U	1
35	SBSB3008Z	Tapping Screw		4
36	SBSB2608Z	"		1
37	SSSP3006ZS	Screw		4
38	TAS271502-01	Shield Board		1
39	TJN271411-03	Cushion		2
40	TJN270469-01	Lid Cushion	for Top Panel, Bottom Cover	4
41	TJN271501-04	Himelon Sheet	for Bottom Cover	3
42	" -03	"	"	5
43	" -02	"	for Battery Cover	3
44	" -05	"		2
45	" -06	"		2
46	TJN265423-01	Panel Cushion		1
47	*VJH4007-001	Handle		2
48	SPSP4010ZS	Screw	for Handle	4
49	WNB4000N	Washer	for Handle	4
51	TFB304417-01	Handle Bracket	(1)	1
52	TFB304418-01	"	(2)	1
53	TFB304419-01	"	(3)	1
54	SBBS3006Z	Tapping Screw		2
55	LPSP3006ZS	Screw		3
56	TJE304408-01	Switch Escutcheon		1
57	TJE304409-01	"		1
58	*VJD4166-001	LED Ring		1

Enclosure Assembly

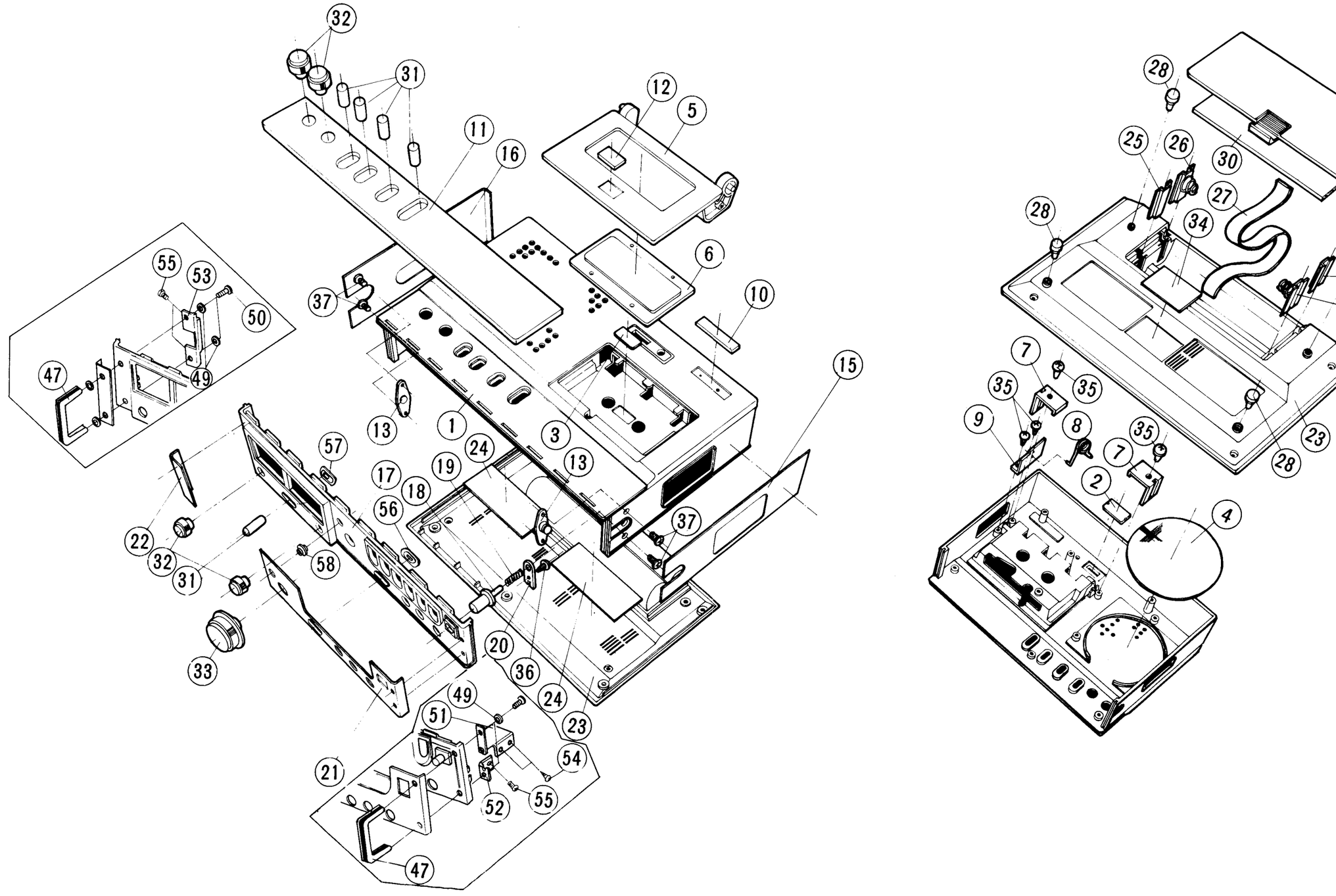

Fig. 31

Electrical Parts (Except P. W. Board Parts)

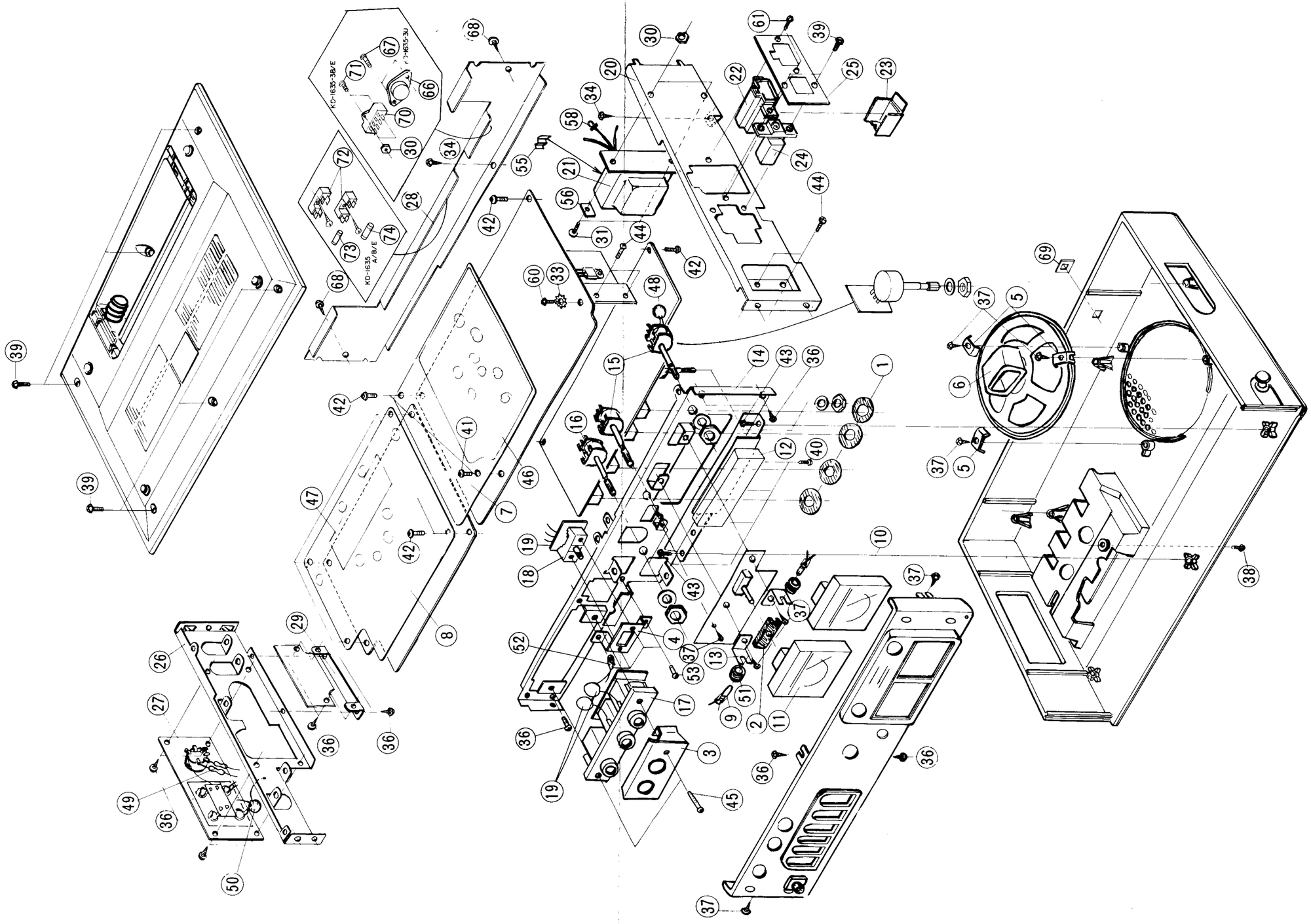

Fig. 32

Electrical Parts List Except P. W. Board Parts

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	TJN271489-01	Blind		4
2	TJN271492-01	〃		1
3	TAS271503-01	Shield Board	(D)	1
4	TFB304401-01	Switch Bracket		1
5	T42437-001	Bracket	Speaker	3
6	SK2122E	Speaker	10cm 4Ω	1
7	*TAS304421-01	Shield Board (A)	for Main C. Board	1
8	*TAS271408-03	〃	for ANRS C. Board	1
9	T47729-002	Lamp	6.3V 70mA	1
10	TDM265311-06	Level Meter	Left CH	1
11	〃 -07	〃	Right CH	1
12	TJN271441-03	Cushion		1
13	TFB271412-01	Lamp Bracket		2
14	*TFB271317-0D	Front Bracket Ass'y		1
15	QVF1A4B-054	V. Resistor	R146,246 Sub Rec	2
16	QVZ1218-001	〃	R147,247 Main Rec	1
17	TAJ031304-02	Jack Ass'y	MIC & PHONES	1
18	QSL2218-112	Lever Switch	ST-MONO	2
19	TAA304403-01	Circuit Board	ST-MONO SW	1 set
20	TFB271303-02	Left Side Bracket	KD-1635-3B/E, KD-1636-2C	1
	〃 -01	〃	KD-1635-3A/U, KD-1636-2J	1
21	TAP287301-01	Power Transformer	KD-1635-3A	1
	TAP287302-01BS	〃	KD-1635-3B	1
	TAP303301-01	〃	KD-1636-2C/J	1
	TAP286301-01	〃	KD-1635-3E	1
	TAP288301-01	〃	KD-1635-3U	1
22	QMC0263-001	AC Jack Ass'y	KD-1635-3E	1
	QMC0263-001BS	〃	KD-1635-3B	1
	QMC0262-001	〃	KD-1635-3A/U, KD-1636-2C/J	1
23	V44399-00A	Cover	KD-1635-3E	1
	V44399-00ABS	〃	KD-1635-3B	1
	TDZ001463-01	〃	KD-1635-3A/U, KD-1636-2C/J	1
24	TAJ271306-01	Ext. Batt. Jack	KD-1635-3A/E/U,KD-1636-2C/J	1
	TAJ271306-01BS	〃	KD-1635-3B	1
25	TJP271403-01	Jack Plate		1
26	TFB271304-02	Right Side Bracket		1
27	TAJ271307-02	Jack Ass'y	LINE, DIN	1
28	TFB271305-03	Back Side Bracket	KD-1635-3A, KD-1636-2C/J	1
	TFB271305-04	〃	KD-1635-3B/E	1
	TFB271305-02	〃	KD-1635-3U	1
29	TFB271476-01	Switch Bracket	for Muting SW	1
30	NTB3000S	Nut	for Power Transformer	4
31	DPSP3008ZS	Screw	〃	2
32	WNB3000N	Washer	for Main C. Board, ANRS C. Board	7
33	WBS3000	T. Lock Washer	for Main C. Board	1
34	SBSB3006C	Tapping Screw	for Top Panel	5
35	SBSB3006V	〃	for Check C. Board	2
36	SBSB3006Z	〃	for Front Panel, Spring Plate, Front Bracket, Jack (LINE, DIN), Muting SW Bracket	10
37	SBSB3008Z	Screw	for Speaker, Lamp Bracket, Front Panel	7
38	SPBP2004B	〃	for Cassette Holder	1
39	SDBP3008RS	〃	for Back Cover Ext. Battery Jack	10
40	LPSP2006VS	〃	for SW C. Board	4
41	DPSP3008VS	〃	for Main C. Board	1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
42	DPSP3006VS	Screw	for Main C. Board, ANRS C. Board SW C. Board	9
43	LPSP3006CS	〃	for Top Panel	3
44	LPSP3008VS	〃	for Main C. Board	2
45	LPSP3014ZS	〃	for Jack	2
46	TJL271493-01	Label (A)	for Main C. Board	1
47	TJL271494-01	Label (B)	FOR ANRS C. Board	1
48	QCF11HP-103	Ceramic Capacitor	C30 0.01μF Master Volume	1
49	QRD143K-822	C. Resistor	8.2kΩ	2
50	QCF11HP-103	Ceramic Capacitor	Left Bracket & Jack	1
51	53492	Rubber Bushing		2
52	50242-2	Lug		1
53	LPSP2605Z	Screw	for SW Bracket, Switch	4
54	TAZ000452-02	Seal	KD-1635-3E	1
	〃 -03	〃	KD-1635-3E	1
55	TAS286401-01	Shield Plate	for Power Transformer KD-1635-3A/B/E	1
56	F4932-002	Special Washer	for Power Transformer	1
58	FG9060-001	Wire Connector	KD-1635-2E	1
59	VKZ4001-002	Wire Holder	KD-1635-3B	1
60	SPKP3008S	Screw	for Heat Sink	1
61	SPBP2610B	〃	for AC jack KD-1635-3B/E	2
	SPBP2606B	〃	〃 KD-1635-3A/U KD-16362C/J	2
62	TAA305459-02	C. Board	for PIN Jack	1
63	TFB288401-01	Socket Bracket	KD-1636-3U	1
64	LPSP3006Z	Screw	for Bracket, KD-1635-3U	2
65	QMC0306-001	Plug Ass'y	KD-1635-3U	1
66	QMC0733-004	Socket Ass'y	KD-1635-3U	1
67	LPSP3008ZS	Screw	for Socket, KD-1635-3U	2
68	SBSB3005Z	Screw	for Back Side Bracket x 2	8
69	TJP304426-01	Panel Cushion	KD-1635-3A/U, KD-1636-2C/J	1
	〃 -02	〃	KD-1635-3B/E	1
70	QSS2325-008RS	Slide Switch	KD-1635-3B	1
	QSS2325-008	〃	KD-1635-3E	1
71	LPSP3008ZS	Screw	KD-1635-3B/E	1
72	QMG1321-001BS	Fuse Holder	KD-1635-3B ⚠	2
	QMG1321-001	〃	KD-1635-3A/E ⚠	2
	TAZ000331-01	〃	KD-1636-2C/J, KD-1635-3U ⚠	2
73	QMF51A2-1R0BS	Fuse	KD-1635-3B, 1.0A ⚠	1
	QMF51A2-1R0	〃	KD-1635-3A, 1.0A ⚠	1
	QMF51A2-R50	〃	KD-1635-3E, 1.0A ⚠	1
74	QMF51A2-R80BS	〃	KD-1635-3B, 0.8A ⚠	1
	QMF51A2-R80	〃	KD-1635-3A/E, 0.8A ⚠	1
	QMF61M2-R80	〃	KD-1636-2C/J, 0.8A ⚠	1
	QMF60R1-R80	〃	KD-1635-3U, 0.8A ⚠	1
75	TAZ000445-01BS	Fuse Seal	KD-1635-3B, 1.0AT	1
	TAZ000445-01	〃	KD-1635-3A, 1.0AT	1
	TAZ000445-04	〃	KD-1635-3E, 500mA	1
76	TAZ000445-06BS	〃	KD-1635-3B, 800mAT	1
	TAZ000445-06	〃	KD-1635-3A/E, 800mAT	1
	TLT000506-01	Caution Seal	KD-1636-2C/J, fuse replacement	1

Packing

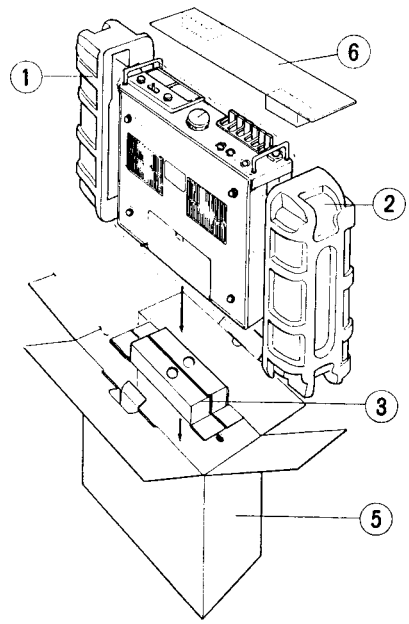

Fig. 33

Packing Material List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1~5	*TKB271323-0J	Packing Case Ass'y	KD-1636-2J	1 set
	* " -0L	"	KD-1636-2C	1 set
	* " -0K	"	KD-1635-3A/B/E/U	1 set
1	*TKC271104-01	Cushion (L)	Left	1
2	*TKC271105-01	Cushion (R)	Right	1
3	TKB271323-04	Battery Case		1
5	TKB271323-12	Case	KD-1636-2J	1
	" -14	"	KD-1636-2C	1
	" -13	"	KD-1635-3A/B/E/U	1
6	TKC304422-01	Cushion		1
	T6800-00Q	Envelope	for Set	1
	AP4056A-46	"	for provided cords	1
	QPGB024-03404	Poly Bag	for Instruction Book	1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
DT-626	Demo Cassette	KD-1635-3B, KD-1636-2C/J	1
CN201	DIN Cord Ass'y	KD-1635-3B/E	1
VMP0002-00A	Pin Cord Ass'y	KD-1635-3A/U, KD-1636-2C/J	2
T47796-00B	Head Cleaning Stick		2
AP4056A-24	Envelope		1
TLT000429-01	Caution Card		1
QMP2540-183	Power Cord	KD-1635-3A	1
QMP9017-006BS	"	KD-1635-3B	1
QMP1240-183	"	KD-1636-2C/J	1
QMP3950-183	"	KD-1635-3E	1
QMP7640-183	"	KD-1635-3U	1
TLC271319-0B	Band Ass'y		1
TLJ000476-02	ANRS Seal		1
TLJ000477-02	Super ANRS Seal		1
BT20013B	Guarantee Certificate	KD-1635-3B	1
*VNN0017-301	Instruction Book		1
TJL000420-01	Label	KD-1635-3B	1
QZL1002-003BS	Warning Label	KD-1635-3B for Power Cord	1
TLT052401-01BS	"	KD-1635-3B	1
TLT052401-01	"	KD-1635-3A/E	1
VNC5004-001	Mark Sticker	KD-1635-3B/E	1
BT20029	Warranty Card	KD-1635-3A	1
BT20025B	"	KD-1636-2C	1
T44362-001	CSA Marker	"	1
TLT000505-01	Caution Seal	"	1
T46328-003	Caution Card	KD-1635-3A/B	1
T46328-001	"	KD-1635-3U	1
T46328-004	"	KD-1635-3E	1
TLT279401-01	"	"	1
BT20032	Warranty Card	KD-1636-2J, KD-1635-3U (for PX)	1
BT20023	Service Procedure	" "	1
BT20024B	Special Reply Card	" "	1
V04062-001	Siemens Plug	KD-1635-3U	1

JVC
VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 804 Futoo-cho, Kohoku-ku, Yokohama, Japan

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